



Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 27

NUMBER 1

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State News

- Sat., Jan. 15 **State Board Meeting:** 10 am Salem. Oregon State Parks and Recreation Office, 1115 Commercial St. NE. Call Jim Crane, 393-0798, for more information.
- Sat., March 12 **State Board Meeting:** 10 A.M. Mosier. Call Lisa Croft, 447-5270, for more information. (Note: Generally take lunch to Board meetings.)
- Annual Meeting.** Ashland. Details to be announced.

Chapter News

Blue Mountain

For information, call Chapter President Jerry Baker (566-3381).

Corvallis

- Jan. 11, Tues. **Meeting:** 7:30 P.M. Room 2087 Cordley Hall, OSU campus. Steve Lindsey, Corvallis city planner, will speak on the Corvallis wetlands assessment and Berg Park.

Emerald

- Jan. 15, Sat. **Field Trip:** Ecology of Mount Pisgah; life in the dead of winter. 10 A.M. to Noon. Led by Ethan Perkins, sponsored by the Arboretum. \$2 per participant for "Arboretum Education Program." Bring binoculars and hand lens if possible. Call Ethan Perkins, 345-3944, for more information. (See next item for meeting places.)

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

- Jan. 22, Sat **Field Trip:** Winter twigs on Mount Pisgah Arboretum. 10 A.M. to Noon. Led by Rhoda Love. \$2 per participant for "Keys to Winter Twigs at the Mount Pisgah Arboretum." Bring pocket knife, hand lens and ruler. Meet at S. Eugene H.S. 9:30 A.M. or Mount Pisgah visitor's center, 10 A.M. Call Rhoda Love, 345-6241, for information.
- Jan. 24, Mon. **Meeting:** 7 P.M. Loren Russell will speak on "Gardening with native plants" Morse Ranch Park. Directions from downtown Eugene: Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E.) Turn right (W) on Crest and proceed about 4 blocks. Turn right into Morse Ranch parking lot. Walk east to the white farmhouse.

High Desert

- Jan. 25, Tues. **Meeting:** 7:30 P.M. Central Oregon Environmental Center, 16 NW Kansas. Ranotta McNair, Forest Service Nursery Manager, will speak on "Species Diversity at the Bend Pine Nursery." Call Cindi O'Neil, 389-3085, for more information.
- March 22 **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Dr. Aaron Liston will speak on "Locoweeds of the world," with an emphasis on his studies of Oregon's species.

Mid-Columbia

- Jan. 5, Wed. **Meeting:** 7:30 P.M. Mosier School. Jerry Igo, Columbia Gorge naturalist, will show another of his wonderful videos, "Thoughts of Spring."
- Feb. 2, Wed. **Meeting:** 7:30 P.M. Mosier School. Darrel Lloyd of the Flying "L" Ranch will give a slide show, "Attack on Bird Creek Meadows," dealing with grazing problems on this beautiful Mt. Adams area.

North Coast

- Jan. 25, Tues. **Meeting:** 7 P.M. Carl Rawe Meeting Room, Tillamook P.U.D., 1115 Pacific. Bill Miles from Bear Creek Artichoke will speak on methods of propagating plants from seed.

Portland

- Jan. 11, Tues. **Meeting:** 7 P.M. Clair Siddall, NPSO member and experienced photographer, will discuss creative techniques for enhancing the artistic aspect of wildflower photography. Bring questions. First United Methodist Church, 1838 SW Jefferson, Portland.

Siskiyou

- Jan. 20, Thurs. **Meeting:** 7:30 P.M. Room 171, Science Building, SOOSC, Ashland. George Shook, citizen forester and environmentalist, speaks on, "South Kalmiopsis: Biodiversity at Risk."
- Feb. 17, Thurs. **Meeting:** 7:30 P.M. Room 171, Science Building, SOOSC, Ashland. Dr. Frank Lang will give a slide show, "Alaskan Adventures," and will report on a conference, "Sampling the Green World," about utilizing botanical resources.

South Coast

For information call Bruce Rittenhouse (888-9328).

Umpqua Valley

Jan. 13, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse. Future field trips and speakers will be discussed. Naomi Neyerlin will show slides. Call Ted Schattenkerk, 679-6953, for more information.

Willamette Valley

Jan. 17, Mon. **Meeting:** 7 P.M. Room 225, United Methodist Church, 600 State St. NE, Salem. Members remember to bring slides for viewing, and Mark Quistad will give a short presentation on the relationship between botany and art according to Robert Irwin. For more information call 399-9680.

Wm. Cusick

Jan. 19, Wed. **Meeting:** 7 P.M. Forest and Range Sciences Lab, C Ave. & Geckler Ln., La Grande. Dennis Sheehy, international range science consultant, will talk on "Herding and grazing in Mongolia and Inner Mongolia: Comparing and contrasting the Mongolian and Chinese views of nature." Call Bob Ottersberg, 963-9660 for information..

Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public. All kinds of contributions welcome. **Copy due by the 10th of each month.**

CREDITS: Identify author and affiliation. If item is not original, cite source and date. Indicate if item is to be used in its entirety, or excerpted at editor's discretion.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints are useable. Some MacIntosh graphics can be used. Contact editor for our current needs or send them along with your article.

BOTANICAL NOMENCLATURE: Follow *Flora of the Pacific Northwest*, by Hitchcock, or *The Jepson Manual* where appropriate. Use both scientific and common names if possible.

FORMAT: Submissions can be in any form, but at present the editor prefers hard copy. Use of a modem is not possible at this time. Editor follows *The Associated Press Stylebook*. For any further details consult editor.

ORIGINALS: Submissions are not returned, unless requested.

THE PLANT PUZZLE

Sponsored by the Siskiyou Chapter

Do you recognize this woody plant? The first person to give the correct scientific name will win a prize.

Send your guess on a postcard to:

Peter Zika
4230 NW Clubhouse Pl., #1
Corvallis, OR 97330



1
cm

Bruce Newhouse of Eugene was the first to solve the November puzzle:
Empetrum nigrum, black crowberry.

NPSO Items For Sale

Oregon's Rare Wildflowers Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (503-389-6981). Individual may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu for wholesale prices to Chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett (see above). \$1 each; minimum order is 5.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one drawn by Valerie Sloane. They are printed on pastel parchment-style paper with matching envelopes. Notecards are sold through NPSO Chapters. For more information contact Lisa Croft, 699 W. 2nd, Prineville, OR 97704 (503-447-5270).

NPSO T-Shirts are available in various colors and designs. They are sold through NPSO Chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 652 W. 10th St., #1, Eugene, OR 97402 (503-485-1868). \$5 each.

NPSO Membership Directory lists names, addresses and telephone numbers of NPSO members (April, 1993). Available from Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412. \$2 each.

A Constitutional Amendment For Environmental Rights

The Oregon Plan for Environmental Rights is an organization formed to put an environmental rights amendment in the Oregon Constitution through the initiative process. It is seeking both signatures and organizational endorsements. Endorsement by the Native Plant Society of Oregon will be considered at the Board meeting in January.

The initiative provides:

"PARAGRAPH 1: The Constitution of the state

of Oregon is amended by creating the following new sections 41 and 42 in Article 1 (the Oregon Bill of Rights) to read:

SECTION 41: PROTECTION OF HUMAN HEALTH. No state action shall unnecessarily infringe on the right of the people to a work place and environment protected from pollutants harmful to human health.

SECTION 42: PROTECTION OF NATURAL ECOSYSTEMS. No state action shall unnecessarily infringe on the right of current and future generations to the benefits of sustainable natural ecosystems, free from significant impairment."

Is the amendment needed? Of course it is. Evidence of environmental degradation is all around us. Native plants have been displaced because of farming and grazing practices and by the spread of urban development. There are clear-cut slopes everywhere and soil from them washes into the streams below leaving degraded soil and polluted streams. Air and water pollution are continuing problems.

This is a Native Plant Society issue. Healthy and diverse plant populations are essential for sustainable ecosystems. State and local governments act primarily by enacting and applying laws. This amendment would permit citizens to have the Supreme Court review laws which permitted environmental damage.

It's also a policy statement. It can and will be used by legislators when shaping legislation and by state agencies and local governments when considering administrative rules and ordinances. And, as mentioned above, statutes, rules and ordinances which failed the environmental protection test could be reviewed by the Supreme Court.

Once it's in the constitution, the legislature could neither amend or repeal it. The constitution can only be amended by a vote of the people.

The language is pretty general but that's common for constitutional amendments. Any constitutional amendment is likely to remain in the constitution for some time and amendments are more likely to be applicable in the future if they are general rather than specific.

Jim Conley
Willamette Valley Chapter

A Summer Exploration of Plant Conservation in Oregon

During this past summer, NPSO helped sponsor four internships in conservation biology (over 40 individuals applied or expressed interest this year). The interns assisted the Oregon Department of Agriculture in summer research on rare and endangered species. Two internships were summer-long in duration, and were filled by Steve Gisler (Sublimity) and Melissa Peterson (Eugene). The other two lasted two weeks each, and were completed by Mary Garrard (Portland; sponsored specifically by the Portland Chapter of the NPSO) and Jill Van Winkle (Portland). As their final assignment, interns are required to write a narrative illustrating their work experience. The following article by Melissa Peterson is the third in the series. -- Bob Meinke

This morning I sit reminiscing about my summer adventures and experiences. I enjoy Oregon's unique landscape, flora and fauna that I have gratefully come to know, and I embrace the memories and knowledge which I have newly acquired. Another chapter of my life comes to an end, and I close the last page with a sense of accomplishment and satisfaction.

My summer conservation biology internship with the Native Plant Society of Oregon and the Oregon Department of Agriculture began in early June. As a recent Linfield graduate in biology, I was eager to use this internship as an opportunity to further my knowledge of the natural history of Oregon and become more intimate with the flora, and inevitably the politics of conserving the flora of the Pacific Northwest.

Throughout the summer, I worked on a variety of different plants such as: *Cimicifuga elata*, *Mimulus pygmaeus*, *Mimulus tricolor*, *Horkelia congesta*, *Aster vialis*, *Luina serpentina*, *Haplopappus radiatus*, *Lupinus cusickii* and *Cordylanthus maritimus*. The projects involving these plants each had a different goal. Two projects which I found particularly interesting were the *Horkelia* and *Luina* projects.

The *Horkelia* project consisted of a taxonomic study of *Horkelia congesta* (Rosaceae), which has been described as subspecies *congesta* in the Willamette Valley, and subspecies *nemorosa* in the Ashland area. The plants growing in the Roseburg

area appear to share morphological characteristics of both the northern and southern subspecies. Because the Roseburg area plants have so many intermediate features, taxonomic identifications are difficult and often uncertain.

It is important to the BLM Roseburg District, which manages many areas of *Horkelia* habitat and several populations, to determine which subspecies (if either) of *Horkelia congesta* they have, because subsp. *congesta* is listed as a sensitive species.

I helped collect specimens from the different known populations so that an in-depth taxonomic study could be made, and I surveyed areas where *Horkelia* has grown historically for any remnant populations from which we could possibly collect. This project is ongoing and no conclusions have been drawn as yet.

Our work with *Luina serpentina* (Asteraceae) took place near John Day in the Malheur National Forest. *Luina serpentina* grows on loose serpentine/talus slopes, forming clumps that can grow greater than two meters in diameter and produce several hundred flowering heads. The research on *L. serpentina* was directed at finding a correlation between plant density in a population and the rate of reproduction, which is directly affected by seed fly larvae infestations. Preliminary results indicate there may be a correlation between the proximity of clumps of plants and the quantity of viable seeds produced. Plants occurring in higher densities may receive heavier larval predation. Low density populations suffered much less from larval predation and seed viability was good.

By working on so many different projects throughout the summer, I gained a fair idea of what is involved in the job of a conservation biologist. I learned that the concerns are seemingly endless and the work occasionally strenuous, and even tedious. But ultimately, the work can be gratifying when you feel you have helped preserve a bit of nature.

My summer internship has given me a greater appreciation and an enhanced understanding of the importance each and every component of a natural system holds. Even though my internship focused on rare and endangered plants, or possibly for that very reason, I do not feel I have become habituated to glorify threatened plant species. I have learned to appreciate the beauty and uniqueness of all plants growing in our precious environment. It is because we take certain components of our en-

vironment for granted, remaining ignorant of the complexities of nature, that we endanger these treasures of nature.

"In wildness is the preservation of the world." - Henry David Thoreau, *Walden*.

-- Melissa Peterson

Forestcare Provision

One Solution to the Clearcutting of Forests on Privately Owned Land

There is a long history of deforestation in North Africa, the Middle East, Europe, Asia, and now in the Americas. In the last 200 years deforestation has spread across North America from the Atlantic Coast and Southern states, through the Midwest to the Pacific Coast. Forest destruction has almost circled the earth.

Is this the price of "progress?" It will be, if we accept it. Our past visions accepted cutting giant trees as pushing back the darkness, bringing light and civilization to a wild land. In the Paul Bunyan tradition land was cleared so crops could be planted and beasts of the forest banished.

As our visions change, we no longer see darkness as evil and threatening. We can let go of a child's fear of the dark. We can learn to see darkness as nurturing, even comforting, so we can see stars again.

First, we can learn to recognize abuse of people and the environment. Second, we will realize that we can take action and even prevent "holocausts."

We are just one couple living in a cottage in the forest. Since living in the forest we are changing our visions and actions. We have worked for several years with conservation and environmental organizations (STAND, ONRC, Sierra Club, etc.) to stop forest destruction. Our efforts to save the old growth and stop clearcutting often had a depressing effect on us. At extreme times we were "nay sayers." It began to embitter us and erode our spirits.

Questions plagued us. How can we stop the widespread destruction and pollution we see around us? Does the human race carry the seeds of its

own destruction? Are humans aliens, or do we have a place on earth? What is that place? What good can we do?

We have owned forest land for about 30 years, beginning with 20 acres and slowly buying more until we had over 300 acres. We have maintained a healthy forest -- even planting about 18,000 trees. We have harvested timber selectively, without clearcutting. However, our love of the land and gentle approach did not insure the future.

We could maintain a healthy, beautiful and productive forest during our lifetimes. However, when we died there was a good chance it would be clearcut. (Often after a death, forest land is sold and clearcut.). As one of our neighbors remarked, after an adjacent forest which had been cared for with selective harvesting was sold and clearcut, "It will be clearcut in the end, so what's the point [of caring for the land]?" This infuriated us. We began to search for a way to insure that our land would not be clearcut again.

We explored various options, the Nature Conservancy and other non-profit and charitable groups. Our land is not unique. It does not have any rare or endangered species. As a result these organizations were not interested in preserving it. We were amazed that no organization would take our beautiful and productive forest and guarantee to keep it that way.

In retrospect this was okay, because we wanted to find a solution to the abuse of ordinary forest land. These forests should occupy a large area in Western Oregon, remaining beautiful, healthy and productive. At the same time, society can only afford to preserve a small portion of the land base.

Then we realized that it was fairly common for private land to have deed restrictions or covenants. These are *perpetual* limitations on how the land can be used. These are voluntary restrictions common in subdivisions and housing developments, but are not yet common in rural areas.

We worked with an attorney, a forester and a realtor to write the Forestcare Provision. This is a carefully worded deed restriction with the purpose of maintaining a mixed species forest. It allows the selective harvesting of trees but prohibits clearcutting. It was designed to protect the land we live on after we die. However, the Forestcare Provisions are suitable for protection of a wide variety of forested land. We would like to share it with others. If you would like more information

about these deed restrictions, and the legal language, please let us know.

Curtin Mitchell & Victoria Meyer
P.O. Box 38
Lorane, Oregon 97451

P.S. We have recently sold two parcels, totaling over 120 acres, with the Forestcare Provision attached to the deeds.

Sidalcea Nelsoniana Finally Makes It

On Friday, February 12, 1993, in Vol. 58, No. 28 of the Federal Register, the U.S. Fish and Wildlife Service announced their final rule, listing *Sidalcea nelsoniana* as a Threatened Species under the Endangered Species Act of 1973. Known now only from restricted areas of the Willamette Valley and the adjacent Coast Range of Oregon and in Cowlitz County, Washington, Nelson's Checkermallow is a vulnerable native member of the Mallow (*Malvaceae*) family. Agricultural practices and land development have essentially eliminated available habitat for expansion of the plant's range. Only two of the remaining population centers are located on federal lands. In Oregon, eight sites on four population centers occur partially on state land. The other sites occur on county, city or private lands, and, for the most part, are unprotected from development and habitat conversion. Locations are disjunct and populations isolated.

Plowing, roadside mowing, conversion of habitat to agricultural lands, logging, recreational activities, stream channelization and water impoundment activity threaten portions of all remaining population centers. The city of Hillsboro has plans for water impoundment which will inundate habitat in the immediate vicinity of one center. Recreational motorcyclists at Devil's Lake Fork have disturbed the site there in recent years. Recent legislative efforts to delete Walker Creek, a tributary of the Nestucca River, from the state Scenic Waterway System, would remove existing protection from one of the Coast Range sites. These efforts are likely to be renewed in order to open the way for McMinnville Water and Light to build an additional reservoir which would inundate all plants at this location. Additionally, adjacent logging activities may have already adversely altered this mountain meadow's hydrological balance.

Though the Bureau of Land Management has pro-

posed designating the site as an ACEC (Area of Critical Environmental Concern), no long-term protective designation has been finalized.

Because *S. nelsoniana* occurs in both isolated wetlands and wetlands adjacent to waterways, some protection under the Clean Water Act now exists. Section 404, administered by the U.S. Corps of Engineers, requires that the Corps not authorize, fund or carry out any action that is likely to jeopardize a Threatened Species' continued existence. *S. nelsoniana* has also been listed as threatened under the Oregon Endangered Species Act. State statute prohibits "taking" of state-listed plants on state-owned or state-leased lands only. No legal protection exists for populations located in other areas under other ownership. Landowners can be alerted to the existence of the species, but protection remains voluntary. Many populations are small and isolated; about one-third contain 25 or fewer plants. Further, the species is gynodioecious; sex ratio may be the controlling factor in seed production.

Because locations of nearly all populations are easily accessible, *Sidalcea nelsoniana* is vulnerable to taking by collectors and to vandalism. FWS has wisely declined to designate critical habitat for the species at this time.

Sidalcea nelsoniana has survived as much adversity in the federal bureaucracy as it has in its native Northwest habitat. It was first collected by Elihu Hall in 1871 and described by Charles Piper in 1919 based on material collected by J.C. Nelson near Salem. Federal involvement began as a result of Section 12 of the Endangered Species Act of 1973, which directed the Secretary of the Smithsonian Institution to prepare a report to Congress on plants considered to be endangered, threatened or extinct. On July 1, 1975, publication of this list in the "Federal Register" was accepted as a petition to review the status of the named plant taxa. In this report *Sidalcea nelsoniana* was petitioned for listing as endangered. On June 16, 1976, the Fish and Wildlife Service published a proposed rule to determine that 1700 vascular plants, including *S. nelsoniana* were in fact endangered. 1978 amendments to the ESA required that all proposals more than two years old be withdrawn, but giving a one year grace period to proposals already over two years old. Then, on December 10, 1979, a FWS "Federal Register" notice withdrew that portion of the June 16, 1976 proposed list that had not been made final.

Later, a December 15, 1980 FWS Notice of Re-

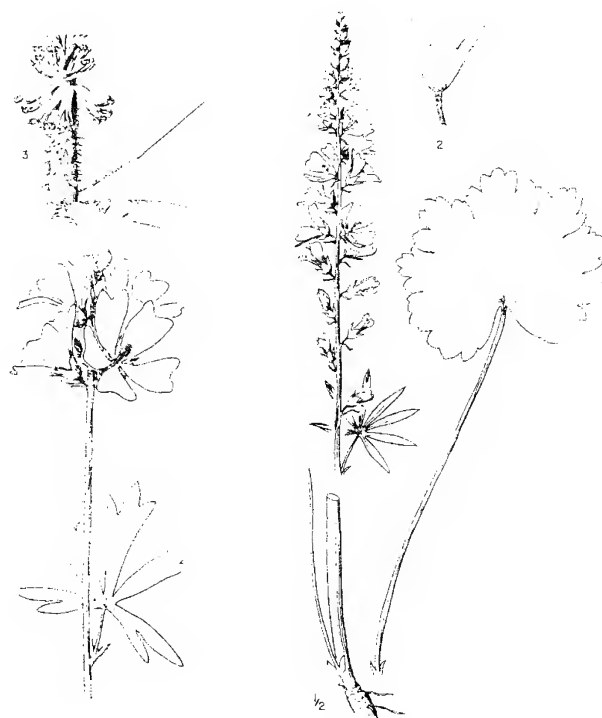
view included *S. nelsoniana* as a Category 1 candidate, indicating that sufficient information was available to support a proposal to so list the species at that time. But this status was changed to Category 2 in the November 28, 1983 Supplement, and remained as such in the September 27, 1985 Notice of Review. (A Category 2 candidate is a species for which listing may be appropriate but additional biological information is needed to support a listing proposal.). In the February 21, 1990 Notice of Review, its status was changed back to Category 1. We are told this was a result of additional information on the occurrence and status of the species with respect to biological vulnerability and threat(s).

Section 2(b) (1) of the 1982 ESA Amendments requires the secretary to treat all petitions pending on October 13, 1982, as having been newly submitted on that date. (This resurrected *Sidalcea nelsoniana* as a candidate species because the 1975 Smithsonian Report had been accepted as a petition.). However, in the Octobers of 1983 - 1990, FWS found that though the petition to list *Sidalcea nelsoniana* was indeed warranted, it was precluded by listing actions of higher priority. On June 7, 1991, FWS published a proposal to list *S. nelsoniana* as a threatened species, based in large part on information on the recent extirpation of a Willamette Valley population and on pending projects that would adversely affect remaining plant populations. Finally, science prevailed over politics with publication of the final rule on February 12, 1993. FWS has at last determined that *Sidalcea nelsoniana* really is a threatened species.

Anti-climactic perhaps, but unreported in the terse bureaucratese of the "Federal Register" notices is the long-standing battle enjoined by conservationists versus the establishment over this plant. Friends of Walker Creek Wetlands, supported by the Salem Audubon Society, National Audubon, the Oregon Natural Resources Council, the Native Plant Society of Oregon and other environmental groups have been arrayed in a long and bitter struggle against McMinnville Water and Light, CH₂MHill, Yamhill County, Oregon state natural resource departments and a Republican administration in the White House. And, for years, a vertebrate, *Strix occidentalis caurina* (northern spotted owl), has been in the limelight of conservation issues. However, repeatedly lost and found, sinking and swimming for nearly two decades in FWS backwaters, *Sidalcea nelsoniana* has survived the bureaucracy. But Friends of Walker Creek Wetlands will tell you that the struggle in real life, in

Northwest wetlands, mountain meadows and relict prairies is not over yet.; it is unending and will continue. Cities are growing and developers are hard to stop. Translocation advocates insist that the plant is easily established outside its known sites. And, no one can tell Oregon farmers how to manage their lands.

Mariana Bornholdt
Willamette Valley Chapter



Sidalcea nelsoniana
From Hitchcock et. al.
Flora of the Pacific Northwest

Book Review

Flora of North America, Volume 1, by FNA Editorial Committee, Nancy R. Morin, Convening Editor, Oxford University Press, New York, 1993.

The first two volumes of the long-awaited 14 volume "Flora of North America" came out in October. Eleven years in the making and costing at present a million dollars a year, FNA is a giant collaboration of 30 institutions in the U.S. and Canada and hundreds of botanists. The project is centered at the Missouri Botanical Garden. Volume 1 is dedicated to Peter Raven with an "In Memoriam" to Arthur Cronquist (1919-1992). The volume begins with a history of the FNA project by editors Nancy Morin and Richard Spellenberg. After an earlier disappointing false start when funding evaporated, the project seems truly under way now with volumes 1 and 2 out, and additional volumes in production. Eventually it will include keys, detailed descriptions, maps and illustrations for all known species of vascular plants and bryophytes growing in North America north of Mexico.

I'm delighted with volume 1, which contains 15 lively and informative essays on such subjects as climate, physiography, soils, vegetation and climate of the past, contemporary phytogeography, biomes, lists of U.S. families and sub-families, taxonomic botany and floristics, history of the botanical exploration of North America, weeds, ethnobotany, economic botany, plant conservation, concepts of species and genera, systems of classification, and an index of flowering plant families native to North America. In effect, volume 1 is an encyclopedia of our present knowledge of the flora of our continent, past and present. It is beautifully illustrated with maps, charts, historic botanical drawings, and wonderful photos of famous botanists living and dead.

I haven't had a chance to read it all yet, but I have dipped into it as my interests dictated, and here are a few of the highlights. There is thorough coverage of continental movements and the floras of the Cretaceous and Tertiary with fine photographs of plant fossils and maps of major fossil locations. The Quaternary (glacial) period is equally well covered. The major biomes of North America are reviewed, again with excellent photographs. There are useful lists of families and subfamilies with members of families believed to be endemic to each state and Canadian province. There are ex-

cellent photographs of early botanists such as Asa Gray, A.S. Hitchcock ("the grass man"), Willis Linn Jepson, Charles Bessey and others. There is some humor too. In their essay, "Weeds," Ronald Stuckey and Theodore Barkley note that human tilling of the soil "provides the proverbial plenitude of pleasant places for pliant plants."

The volume contains a very useful summary of major plants used by North American native peoples. The section on plant conservation by George Yatskievych and Richard Spellenberg is especially fine with an up-to-date review of the endangered species law, and the role of natural heritage programs. The authors also include a list of federally listed plant species. G. Ledyard Stebbins has provided an essay on concepts of species and genera in which he proposes the need for more than one species concept to provide for differences between plant and animal evolutionary mechanisms. Before his death last year, Arthur Cronquist completed a commentary on his general system of classification of flowering plants, the system he used by the editors of this work. He concludes his essay by stating that surely his system will change, as of course it is starting to do, at least in some details, with the present increased use by taxonomists of the modern tools of molecular biology.

Volume 1 is an up-to-the-moment compendium of our knowledge of the North American flora. Of course, some of these essays will be out of date by the time all 14 volumes have appeared, but for a number of years to come, this will be an important reference work for all American botanists. My only regret is that the editors could not find more female botanists to write essays. Of the 25 authors included here, 23 are men!

Rhoda Love
Emerald Chapter

Dave Wagner

NPSO member from Eugene would like you to know he can be reached at 342-4169, on any day after Noon.

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 KALMIOPSIS EDITOR Frank Lang. 535 Taylor St, Ashland 97520; w:552-6341; h:482-5235

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name_____

Address_____

City_____

State_____ ZIP+4_____ - _____

Phone_____

Chapter (if known)_____

Is this a change of address?

If so, please write your old address here:

Please make checks for dues and contributions payable to:
 NATIVE PLANT SOCIETY OF OREGON

DUES include monthly *Bulletin* and annual *Kalmiopsis*.

Full membership is for calendar year, January to December.

() New () Renewal

() Student. \$8

() Regular. \$12

() Family. \$18

() Sustaining. \$30

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() Life Membership. \$500

() New "Quarter" Membership. \$3

Only for new members

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() Subscription Only (*Bulletin* and *Kalmiopsis*). \$12

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 but not have "membership" status*

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Jean Davis Memorial Scholarship Fund. \$_____

Leighton Ho Memorial Field Botany Award Fund. \$_____

Rare and Endangered Plant Fund. \$_____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

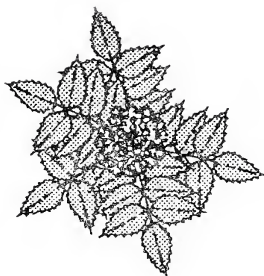
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NATIVE PLANT SOCIETY OF OREGON
 General Business Address: P. O. Box 902, Eugene, OR 97440
 or correspond directly with the Officers and Committee Chairs listed on the inside back page.
 Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

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 and membership requests to:
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 Jan Dobak, Membership Chair
 2584 NW Savier St.
 Portland, OR 97210-2412

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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 27

NUMBER 2

FEBRUARY 1994

ISSN 0884-599

It's Still Renewal Time

The NPSO membership year is January to December.

Check your address label on the Bulletin. If there is a 93 on the top line, you haven't renewed yet.

NPSO brings you field trips, programs, classes, the monthly "Bulletin" and the annual "Kalmiopsis." Your membership donations make it possible to carry out more of the many projects that are needed to pursue the goals of NPSO.

State News

Sat., March 12

State Board Meeting: 10 A.M. Mosier School. Directions: Take exit 69 off I-84, turn right at the service station, go one block and turn right again. (Bring lunch). A field trip led by Jerry Igo to Tom McCall Preserve follows the meeting. If further information is needed, leave a message at 478-3293

May 13-15

Annual Meeting. In Ashland. (Watch this space in March!)

Action Needed! See page 20 on Leslie Gulch

Chapter News

Blue Mountain

Feb. 7, Mon.

Meeting: 7 P.M. Small Business Development Center, 37 SE Dorian, Pendleton. Slide presentation, "Nature's Flower Gardens," by Bruce Barnes. Also, field trips for the year will be scheduled.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

March 7, Mon. **Meeting:** 7 P.M. Small Business Development Center, 37 SE Dorian, Pendleton. Janet Ebaugh will talk about her work as a botanist for the Confederated Tribes of the Umatilla Indian Reservation.

Corvallis

Feb. 7, Mon. **Meeting:** 7:30 P.M. Room 2087 Cordley Hall, OSU campus. Barb Wilson will talk about "Tall Grass Prairies."

Feb. 12, Sat. **Field Trip:** Sneak preview of the combined OSU-UO Herbarium in its new facilities (Full details on the merger and new facilities will appear in the March Bulletin). Herbarium director, Aaron Liston, will demonstrate the new compactors, and accessing collection data from other herbaria via internet. Location data for Benton County populations of *Sidalcea nelsoniana* will be obtained from herbarium specimens. Meet at the Herbarium, Cordley Hall, room 1045, 10 A.M. Call Dick Brainerd, 758-4500, for more information.

Feb. 26, Sat. **Field Trip:** Lichen walk at Finley National Wildlife Refuge, led by OSU lichenologist Bruce McCune, 9 A.M. to 1 P.M. Bring hand lens, learn to identify local lichens. Meet 9 A.M. parking lot across from Campus Beanery (26th & Monroe). Call Dick Brainerd, 758-4500, for more information.

Emerald

Feb. 28, Mon. **Meeting:** 7 P.M. Dr. Dave Wagner will review the Mt. Pisgah Arboretum master plan. Morse Ranch Park. Directions from downtown Eugene: Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E) Turn right (W) on Crest and go about 4 blocks. Turn right into Morse Ranch parking lot. Walk east to the white farmhouse.

High Desert

Feb. 22, Tues. **Meeting:** 7:30 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. David Dobkin, Director, High Desert Ecological Research Institute, will speak on "Riparian habitat recovery and the impact of habitat degradation on bird diversity at Hart Mountain."

March 22, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Dr. Aaron Liston to speak on "Locoweeds of the World," with emphasis on his studies of Oregon's species.

Mid-Columbia

Feb. 2, Wed. **Meeting:** 7:30 P.M. Mosier School. Darrel Lloyd of the Flying "L" Ranch will give a slide show, "Attack on Bird Creek Meadows," dealing with grazing problems on this beautiful Mt. Adams area.

North Coast

Feb. 22, Tues. **Meeting:** 7 P.M. Carl Rawe Meeting Room, Tillamook PUD, 1115 Pacific. Tom Ascher, Coastal Resource Planner, Tillamook County, will discuss county policy on dune stabilization. Joan Sager, 842-2070, for more information.

Portland

- Feb. 8, Tues. **Meeting:** 7 P.M. First United Methodist Church, 1838 Jefferson St., Portland. Peter Frenzen, scientist with the Mt. St. Helens Volcanic Monument, will answer questions about "The ecosystem Recovery of Mt. St. Helens; what happened, and what is happening now.."
- Feb. 5, Sat. **Workshop:** 10 A.M. Leach Botanic Garden, 6704 SE 122nd. Nancy Russell will discuss the acquisition of the Dalles Mountain Ranch, and show slides of some of its outstanding flowers. Call Sara Barnum, 639-3353, for more information.
- Feb. 12, Sat. **Workshop:** 10 A.M. Leach Botanic Garden. Scotty Fairchild will demonstrate the growing of native plants in a rock garden setting. (See above)
- Feb. 19, Sat. **Workshop:** 10 A.M. Leach Botanic Garden. Russ Jolley will present a program on the Columbia River Gorge. (See above)

Siskiyou

- Feb. 17, Thurs. **Meeting:** 7:30 P.M. Room 171, Science Building, SOSC, Ashland. Dr. Frank Lang will give a slide show, "Alaskan Adventures," and will report on a conference, "Sampling the Green World," about utilizing botanical resources.
- March 17, Thurs. **Meeting:** 7:30 P.M. Room 171, Science Building, SOSC, Ashland. Nicolette Was, Experience International volunteer from New Zealand, will speak about and show slides of New Zealand.

South Coast

For information on formation of South Coast Chapter, call Bruce Rittenhouse (888-9328).

Umpqua Valley

- Feb. 10, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse. Call Ted Schattenkerk, 679-6953, for information.
- Feb. 26, Sat. **Field Trip:** Jack Hausotter will lead a trip to Table Rock to see grass-widows and *Lomatium piperi*. Meet at BLM parking lot, 777 NW Garden Valley Blvd., for car pooling at 7:45 A.M., with 8 A.M. departure. Call Richard Sommer, 673-3709, for information.

Willamette Valley

- Feb. 14, Mon. **Meeting:** 7 P.M. United Methodist Church, 600 State St. NE, Salem. Betsy Becker and Dale Sullivan will talk about The Berry Botanic Garden. For more information call 399-9680.

Wm. Cusick

- Feb. 16, Wed. **Meeting:** 7 P.M. Meeting room 5J, Baker City School District, 2090 Fourth Street, Baker City. Jean Findley will present a program about BLM Natural Areas and Conservation Agreements with the U.S. Fish and Wildlife Service, with Leslie Gulch and South Alkali Hills as examples.

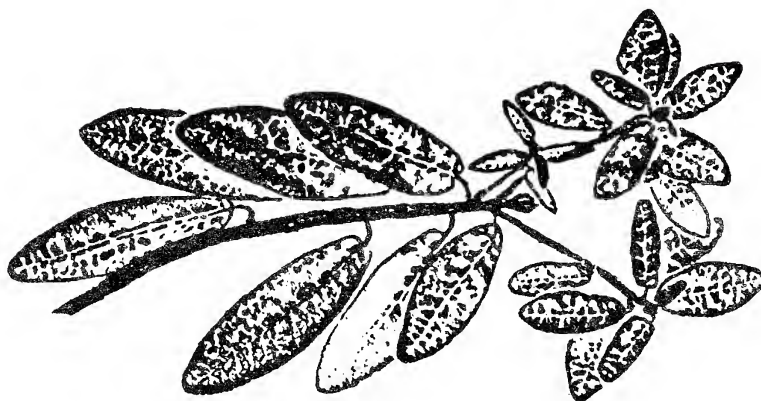
THE PLANT PUZZLE

Sponsored by the Siskiyou Chapter

Do you recognize this native woody plant?
The first person to give the correct scientific name will win a prize.

Send your guess on a postcard to:

Peter Zika
4230 NW Clubhouse Pl., #1
Corvallis, OR 97330



1
cm

Dorothy Barr of Lake Oswego was the first to solve the January puzzle,
salmonberry, *Rubus spectabilis*.

**We Welcome New Members
Joining Between November 1st
and December 31st, 1993**

Corvallis

Fairbank, Sarah
Finn, Chad, Fick, Barb
Meinke, Bob, Magee, Teresa

Emerald

Arnold, Alison
Cortez, Joanna W.
Donachie, Suzanne
Kerleychek, Bob
Lloyd, Robert, Gregg, Lee
Perkins, Mike

High Desert

Googins, Richard L., Mary
Karow, Gregory L.
Robbins-Smith, Carolyn
Sandburg, Robert R.
Weinmann, Fred

North Coast

Nachmann, Barbara

Portland

Boyd, Elizabeth N.
Cammann, Mary L.
Conklin, Robert B.
Granholt, Cindy
Laskiewicz, Terry
Loeb, Nancy
Maillet, Neal
McKeag, Michael
Richardson, Scotty, Michael
Vernon, Victoria
Wilson, Christina

Siskiyou

DeMoss, Barbara
Williams, Barbara

Umpqua Valley

Romeril, Allan B.
Whipple, Terry A.

William Cusick

Bunnell, Keith

NPSO Items For Sale

Oregon's Rare Wildflowers Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (503-389-6981). Individuals may order posters at \$12 each plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu for wholesale prices to Chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett (see above). \$1 each; minimum order is 5.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one drawn by Valerie Sloane. They are printed on pastel parchment-style paper with matching envelopes. Notecards are sold through NPSO Chapters. For more information contact Lisa Croft, 699 W 2nd, Prineville, OR 97704 (503-447-5270).

NPSO T-Shirts are available in various colors and designs. They are sold through NPSO Chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 652 W 10th St., #1, Eugene, OR 97402 (503-485-1868). \$5 each plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory lists names, addresses and telephone numbers of NPSO members (April, 1993). Available from Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412. \$2 each.

The Discovery and Identification of *Lomatium ravenii* -- An Adventure in Taxonomic Perseverance

Raven's lomatium (*Lomatium ravenii* Mathias & Constance), a plant previously thought to be extirpated from Oregon, has been discovered growing in six locations in the Malheur National Forest. Specimens collected in the Prairie City Ranger District were verified recently by Dr. Lincoln Constance, Professor Emeritus at the University of California, Berkeley, a noted expert in North American Apiaceae. According to the Oregon Natural Heritage Program, this plant, endemic to the Northern Basin and Range in California and Nevada, was believed extirpated in the Oregon portion of its historic range in Harney and Malheur counties. The new discoveries are located in southern Grant County, well separated from the Nevada populations, growing in stiff sagebrush communities characterized by low plant cover and very shallow soils.

This noteworthy datum was not the result of a cavalier field identification during the course of an afternoon's serendipitous botanizing. In fact, the challenging taxonomy of *Lomatium* had concerned botanists fumbling with this plant's identity for nearly four years.

In 1989, Greg Lind, botanist with the Malheur, observed this curious umbel growing in two locations in the Prairie City Ranger District. The plant was collected, pressed and labeled, for the moment, as "*Lomatium* sp." to be dealt with more seriously later. (Greg later explained that the winter months provide ample time for such challenges).

In 1990, I joined the Prairie City District staff and was the beneficiary of Greg's vast knowledge and guidance while learning the flora of the Blue Mountains. Greg had an insatiable appetite to know all the plants he encountered in the field and *Lomatium* was no exception. One day that summer the mysterious lomatium (*Lomatium x*) was again collected and that evening we both took a crack at identifying it. I had little success after repeatedly going through the floras. In "Vascular Plants of the Pacific Northwest" it would key fairly well to *L. nevadense*, but the description in the text did not match too closely, nor did it bear much resemblance to what we had been calling *L. nevadense* locally. Greg noted that if one could ignore the white color of the petals, the yellow-flowered *L. foeniculaceum* was a decent fit. Nei-

ther of us were comfortable with these identifications, though. Despite numerous references, one stereomicroscope, and a hand-honed micropoint tweezers, the identity of this plant still eluded us. Perhaps better minds than ours could help.

The following winter, Greg sent specimens of *Lomatium x* to Oregon State University and Eastern Oregon State College. Both replied that identification was difficult due to insufficiently mature fruits, an important characteristic for distinguishing *Lomatia*. However, the material was tentatively identified as *L. nevadense*, a morphologically variable species. This we haughtily dismissed for reasons stated above, yet we were no closer to the solution.

The 1991 field season was lost to me to pursue this question further, as the fickle nature of Forest Service budgets had me working a nonetheless memorable summer for the Deschutes National Forest in Bend, Oregon. But the following autumn, I was back on board the Malheur, and I had not forgotten this plant.

Now, I should state that some of our prior frustration with this plant's identity could be traced to the tools we employed to pry it from the ground. Our small "dandelion weeder," which were portable and reasonably effective, proved less capable in the shallow, stony soil where *Lomatium x* is found. Root material is generally favored when collecting botanical specimens, and we had been gathering, as best we could, what seemed a representative portion of an apparently slender taproot with our mysterious umbel.

Enter Dale McNeal, Professor of Botany at the University of Pacific, Stockton, California. In May of 1992, Dr. McNeal was passing through eastern Oregon forests collecting wild onions (*Allium* sp.) to help resolve taxonomic confusion in the genus, for the Forest Service. I was fortunate to guide Dr. McNeal to collection sites in the Malheur. I took him to one area that also happened to harbor the mysterious *Lomatium x*.

Dr. McNeal was not a timid plant collector; he carried with him oversize plastic bags that would accommodate a sizeable volume of material, and to help fill those bags, a large pick-like implement which he affectionately referred to as "The Terminator." Dr. McNeal presented quite a formidable image wielding The Terminator in one hand above his head as he poised his tall frame over the unwitting onions.

Opportunity is seldom a lengthy visitor. "Would Dr. McNeal kindly liberate some specimens of that curious little umbel yonder?" Obliging, Dr. McNeal set to work. When the debris settled, I beheld an astonishing sight; deep down below the taproot, wedged uncomfortably between plates of andesitic bedrock, *Lomatium* *x* was equipped with tubers!

Now, for those readers unaccustomed to navigating the fog-shrouded seas of *Lomatium* taxonomy, the morphology of the underground portion is one character used to distinguish groups of species in dichotomous keys. Some species have a slender taproot, as I thought to be the case in *Lomatium* *x*, while others have variously thickened, shapeless or globose, fleshy tubers. I had been following, erroneously, the taprooted leads in the keys.

Armed with this essential new datum, fresh material, and invigorated resolve, I dashed back to the arsenal of floras at home. Following the tuberous leads in the key, then, led me to a small group of species, none of which, unfortunately, bore any resemblance whatsoever to the material at hand. I was shipwrecked on a reef of seeming taxonomic futility.

Once my attitude was again sailing the clear blue waters of optimism, I reasoned that my plant (I was becoming quite possessive -- obsessive? -- by now) might not be included in "Vascular Plants of the Pacific Northwest," that perhaps it was a Basin and Range species that had sloshed up into the lower slopes of the adjacent southern Blue Mountains. The "Intermountain Flora" had not yet published the volume dealing with the Apiaceae, the plant family containing *Lomatium*, and I had no other references that dealt with southeast Oregon. So on a recommendation, I mailed some material to Dr. Lincoln Constance at Berkeley.

Dr. Constance's prompt, friendly reply was very encouraging, if not entirely conclusive. He offered two possibilities: *Lomatium ravenii* or an undescribed relative in the *L. foeniculaceum*-*L. nevadense* group. A new species! Wow! What a development that would be. When my pulse slowed, I researched the former alternative. *L. ravenii* was not recorded in "Vascular Plants of the Pacific Northwest," nor was it mentioned in Peck's "A Manual of the Higher Plants of Oregon," nor Abrams' "Illustrated Flora of the Pacific States." Out of curiosity, I looked into "Rare, Threatened, and Endangered Plants and Animals of Oregon" to see if it was a species of concern tracked by the Oregon Natural Heritage Program. To my aston-

ishment it was listed as possibly extirpated from the state, having once occupied sites in Harney and Malheur counties. To discover an extirpated species seemed nearly as thrilling. But the final answer would have to wait. Dr. Constance's uncertainty was the result (again) of immature fruits. It was September and I wouldn't be able to collect properly-fruited material until the following summer. Imagine the winter-long suspense.

With the utmost conviction, excellent material was gathered this past June and sent to Dr. Constance with the results announced at the outset of this article. For several days, Dr. Constance thought he might be handling a new species, before settling on *Lomatium ravenii*. In the end, he could not distinguish my plant when compared to *L. ravenii* material from locations other than the type. Of note, he found the tuberous habit of *L. ravenii* more interesting than what "just another *Lomatium*" find might have been. Dr. Constance remarked that both the describers and Mark Schlessman, the monographer of the tuberous *Lomatia*, had overlooked this character of the plant's subterranean nature.

What lesson then, can be learned from this story? Don't let the curious and unknown slip through any cracks in your botanical integrity, even when confronted with chronic taxonomic disappointment. And, when concerning *Lomatium*, perhaps it is best to "speak softly and carry a big pick."

Gene Yates
Forest Botanist
Malheur National Forest

SUMMER INTERN'S REPORT

The fourth NPSO/ODA summer intern's report for the 1993 field season, that was to have been included in the Bulletin this month, has never been written. Consequently, it will never be published.

Eastside Conservation Report

If you write only one letter about eastside conservation issues in 1994, let it be to the Vale District BLM about their draft Leslie Gulch Management Plan. They have done something very right and badly need support.

Leslie Gulch is a spectacular spot. It has dramatic canyon walls, bighorn sheep, splendid solitude, and what is probably the greatest concentration of the rarest plants east of the Cascades in Oregon. Until now the BLM has seen fit to graze this natural wonder. However, they appear ready to change their tune. The draft management plan for this 12,000 acre Area of Critical Environmental Concern proposes to transfer the 264 AUM's (Animal Unit Months) in the ACEC to an area outside of it. They also increase other protections for the five rare species found in the area: Ertter's groundsel (*Senecio ertterae*), Packard's blazing star (*Mentzelia packardiae*), grimy ivesia (*Ivesia rhypara* var. *rhypara*), Owyhee clover (*Trifolium owyheense*), and sterile milkvetch (*Astragalus sterilis*). Other less rare plants also found there include Packard's sagebrush (*Artemisia packardiae*), Mackenzie's phacelia (*Phacelia lutea* var. *mackenziorum*), and barestemmed buckwheat (*Eriogonum novonudum*). More controls will be placed on rockclimbers and wild and domestic horses. An inholding will be purchased and mineral rights withdrawn.

Folks in Malheur County are stunned. They can't believe that the BLM would consider transferring (not eliminating, just transferring) AUM's just to protect rare plants! Even though there is no economic impact from this, the county commission, local cattlemen, the state representative and others are putting pressure on the BLM to go against their own preferred alternative and keep the grazing. It is important that groups like the NPSO support an agency when it goes against the tide and does the proper thing. So let's do it! Right now while you're thinking about it.

Please write a letter to:

Ralph Heft, Malheur Resource Area Manager,
Vale District BLM,
100 Oregon St., Vale OR 97918

before the close of the comment period on February 14. Tell him you strongly support Alternative

D of the EA for the Management Plan for the Leslie Gulch ACEC. Ask to be on the mailing list if you are not already. The BLM will need strong support on this issue to counter the heavy pressure they are getting from the other sides. And plan on making a trip to this amazing spot in May so you can appreciate one of Oregon's special places.

I am happy to report other good news from the eastside. As the Hart Mountain Antelope Refuge goes into its third year of no grazing, it appears that it may remain cow free for the foreseeable future. With strong support from this and other groups, the U.S. Fish and Wildlife Service seems to be heading for eliminating grazing from the Refuge. Lake countians and other commodity interest groups are still pushing hard to maintain cattle on this wildlife refuge.

More good news comes from the Lake view BLM. Lucile Housely has been appointed to the vacant position of District botanist. Lucile was a long-term director of the Malheur Field Station. She knows Oregon's Great Basin ecology, and should do a superb job for this huge district.

Stu Garrett
Eastside Conservation,
Committee Chair, NPSO

Grant Proposals Requested

The Native Plant Society of Oregon continues sponsoring small research grants. Objectives of the program are: 1) to stimulate basic field research into the biology and distribution of Oregon's native and naturalized flora, particularly in the more remote areas of the state, and 2) to promote native plant conservation through better understanding of Oregon's flora and the factors affecting its survival. The Leighton Ho Field Botany Award, with priority on study west of the Cascades, has sometimes been given as a matching grant in cooperation with The Nature Conservancy; their research needs can be obtained from Cathy Macdonald, Director of Stewardship, 1205 NW 25th, Portland, OR 97210 (503-228-9561). NPSO's program policy and guidelines can be obtained from Dan Luoma, Research Grants Committee Chair, 4560 University Pl., #2, Corvallis, OR 97330; 503-752-8860. Research proposals are due by March 1

PNW Exotic Pest Plant Council Is Organized

For years many of us who are concerned with the protection, management and enjoyment of our natural areas in the Pacific Northwest have become increasingly concerned about the spread of invasive exotic vegetation. Scotch broom and gorse in western Oregon, yellowstar thistle in southern and northeastern Oregon, and purple loosestrife throughout the wetlands of the Northwest are some examples.

In many of the Pacific Northwest's natural ecosystems, invasive exotic plants now represent the number one threat to the integrity of those ecosystems. Yet control of invasive exotic vegetation is becoming even a lower priority within the budgets of nearly all public and private land management agencies.

Communication and coordination among interested and knowledgeable parties is difficult, and worse still, these issues are barely perceptible to most of the public, a fact reflected by the lack of programs and funding. The formation of the Pacific Northwest Exotic Pest Plant Council is designed to provide a step toward addressing these problems.

On December 10-11, 1993 an organizational meeting was held in Pendleton to form this council. It is patterned after similar organizations in Florida and California. [See Nov. 1993 Bulletin] Lou Whiteaker, U.S. B.L.M., Klamath Falls, was elected president. Dave Langland, Oregon Department of Agriculture, Weed Division, of Redmond, was named treasurer.

Our goal is to launch a new, professionally-based organization to provide a regular forum for the exchange of ideas and knowledge, to promote needed research and funding, to enhance public awareness of problems with exotic pest plants and to advocate effective solutions.

These goals were identified:

1. To work cooperatively with diverse groups to prevent introduction and establishment of non-native pest plants.
2. To understand, predict and manage exotic pest plant invasions.

3. To educate the general public and legislators on the environmental and economic impacts of exotic pest plants.

We have an opportunity to make a difference in the course of biological history in the Pacific Northwest, by coordinating the efforts of Oregon, Washington, Idaho, and possibly Montana and British Columbia, with regard to these invasives species.

While we have the enthusiastic support of such federal, state and local agencies as the U.S. Forest Service, the U.S. Bureau of Land Management, the U.S. Fish and Wildlife Service, Oregon Department of Agriculture, Oregon Department of Fish and Wildlife, and county Weed Districts, we also have the versatility and empowerment that comes from the support of private organizations and individuals who are concerned with the improvement of our environment. In the near future you will be hearing a lot about managing invasive vegetation in a sensible and effective manner.

The initial project chosen is purple loosestrife (*Lythrum salicaria*). An educational program as to why we should not lose our wetlands to this plant, as has happened in other parts of the country, will be the direction of our efforts.

Though purple loosestrife is project one on the agenda, it will be followed closely by other weed threats. Knapweeds, yellowstar thistle, Scotch broom and other plants that invade native habitats and degrade them, will become the focus of our efforts.

Join us and you will receive a newsletter with a description of specific projects and ways you can help. For too long we have thought of weed control as being the exclusive agenda of farmers, ranchers, chemical companies and agency landholders. This is an opportunity for us to accept responsibility for the problem and the solution. Join now.

Send your name, address, business affiliation and individual membership fee of \$20 to: David G. Langland, Treasurer, PNW Exotic Pest Plant Council, 4409 SW Obsidian, Redmond, OR 97754.

Jerry Igo
Mid-Columbia Chapter

**WNPS/NPSO SPRING STUDY
WEEKEND
COLUMBIA RIVER GORGE
MAY 6, 7 & 8, 1994**

What: A unique opportunity to be around plant enthusiasts in one of the most floristically interesting and diverse areas in the country! A full program is planned, including evening speakers/slide shows on Friday and Saturday, an array of field trips to choose from on Saturday and Sunday led by botanists well-known for their work in the Gorge.

Where: Camp Arrowhead Girl Scout Council Retreat on Wind Mountain (2 miles west of Dog Mountain and 8 miles east of Stevenson, WA) on the Washington side of the mid-Columbia Gorge.

Facilities: Camp Arrowhead is located amid trails and several unusual geological features. There is a lodge which will be the central meeting area. Cabins will house attendees, with 6-8 people per cabin. Capacity is 150 people. Tents are OK, and lodging fees are the same as for cabins or vehicles.

Questions: Contact Sally Claggett, PO Box 1621, White Salmon, WA 98672, or 509-427-5645 days.

Registration: Deadline is April 10, 1994. Checks payable to WNPS are sent to **Jim Riley, Box 458, Randle WA 98377**. You are urged to register now, but make clear which items you are registering for. A registration form, available from WNPS, may also appear in next month's Bulletin.

Fee Schedule:

Study weekend registration	\$5.00
Lodging	
Friday	2.00
Saturday	2.00
Meals	
Saturday	
Breakfast	3.00
Lunch	3.00
Dinner	5.00
Sunday	
Breakfast	3.00
Lunch	3.00

Native Plant Identification Classes

Leach Botanical Garden, 6704 SE 122nd Ave., Portland, OR 97236.

March 12th & 19th, 9 A.M. to Noon.

March 26th: All day field trip to east Columbia Gorge.

Fees: \$20 for Leach Garden Friends, \$22 for others, with field trip expenses shared by those who car-pool.

Jerry Igo, Columbia Gorge naturalist and NPSO Board member will teach classes and lead field trip. Pre-registration is urged.

Guidelines for Contributors to the Bulletin
NPSO Bulletin published monthly as a service to members and the public. All kinds of contributions welcome. **Copy due by the 10th of the month.**

CREDITS: Identify author and affiliation. If not original item, cite source and date. Indicate if it is to be used in its entirety, or excerpted at editor's discretion.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints are useable. Some McIntosh graphics can be used. Contact editor for our current needs, or send them with article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual" where appropriate. Use both scientific and common names if possible.

FORMAT: Submissions can be in any form, but at present editor prefers hard copy. Use of a modem is not possible at this time. Editor follows "The Associated Press Stylebook." For further details consult editor.

ORIGINALS: Submissions are not returned, unless requested.

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Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

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City_____

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Phone_____

Chapter (if known)_____

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Please make checks for dues and contributions payable to:
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Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Xavier St., Portland OR 97210-2412.

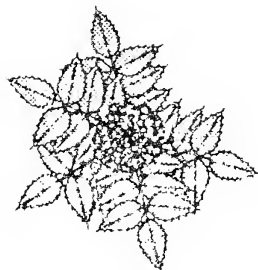
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NATIVE PLANT SOCIETY OF OREGON
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 or correspond directly with the Officers and Committee Chairs listed on the inside back page.
 Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

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State News

- Sat. March 12 **State Board Meeting:** 10 am Mosier School. Directions: Take exit 69 off I-84, turn right at service station, go one block and turn right again. (Bring lunch). A field trip led by Jerry Igo to Tom McCall Preserve follows the meeting. For further information leave a message at 478-3293.
- May 13-15 **Annual Meeting:** Ashland. Details in this issue.

Chapter News

Blue Mountain

- March 7, Mon. **Meeting:** 7 P.M. Small Business Development Center, 37 SE Dorian, Pendleton. Janet Ebaugh will talk about her work as botanist for the Confederated Tribes of the Umatilla Indian Reservation.
- April 4, Mon. **Meeting:** 7 P.M. Same meeting place. Charlie Johnson, area ecologist, USNF, will speak on "The Subalpine of the Wallowa Mountains: Plant Communities and Flora."
- April 17, Sat. **Field Trip:** Carpool to Jump-off Joe Butte, Kennewick, WA, to see rosy balsamroot. and to Twin Sisters on the Columbia. Meet at NE corner, Safeway parking lot, Pendleton, 8 A.M. Leader, Bruce Barnes, 276-5547.

Corvallis

- March 14, Mon. **Meeting:** 7:30 P.M. Room 2087 Cordley Hall, OSU campus. Biologist Laurel Deaney will talk on "The Role of Fire in Maintaining Willamette Valley Prairies." Call Keli Kuykendall, 758-8409, for more information.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

Emerald

- March 5, Sat. **Field Trip:** Meet at 8:30 A.M., South Eugene H.S., to see the lichens of Andrews Experimental Forest. Take lunch and hand lens. Leader to be announced.
- March 28, Mon. **Meeting:** 7 P.M. Morse Ranch Park. Elaine Reese will give a slide show/talk on the "Oregon High Desert Protection Act." Directions from downtown Eugene: Take Wilamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves.. E). Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot.

High Desert

- March 22, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. David Dobkin, Director, High Desert Ecological Research Institute, will speak on "Riparian habitat recovery and the impact of habitat degradation on bird diversity at Hart Mountain."

Mid-Columbia

- March 2, Wed. **Meeting:** 7:30 P.M. Mosier School. This year, "Wildflowers" is the interpretive scene for the Columbia Gorge National Scenic Area. Roberta Hilbruner, Interpretive Specialist for the Forest Service, will discuss the events and displays being planned
- April 6, Wed. **Meeting:** 7:30 P.M. Mosier School. Rob Kavanaugh, the "oaks man" of Washington, will give a presentation on the ecology of Oregon white oaks.

North Coast

- March 26, Sat. **Field Trip:** Hike on Bay Ocean Spit. Meet 10 A.M. at Bay Ocean parking lot. Call Jim Winslow, 842-4131, for more information.
- March 29, Tues. **Meeting:** 7 P.M. United Methodist Church, 3808 12th, Tillamook. Members will bring plants, publications or photographs to share.

Portland

- March 8, Tues. **Meeting:** 7 P.M. First United Methodist Church, 1838 SW Jefferson St.. NPSO Small Grants Program: What is it? What does it do? What can we learn? Panel: Bob Meinke, grant manager; Dan Luoma, NPSO representative; Mary Garrard, intern.
- March 12, Sat. **Field Trip:** We'll look for early flowers at Catherine Creek. Leave Lewis and Clark State Park, 8:30 A.M. Call Sara Barnum, 639-3353, for more information on all trips.
- March 26, Sat. **Field Trip:** Trip on the upper Deschutes River to find flowers of the eastern Gorge.
- April 2, Sat. **Field Trip:** Jerry Igo will show interesting flowers around the back roads of Mosier. Meet Lewis and Clark S.P. 8:30 A.M., or Mosier School 9:45 A.M.

Siskiyou

- March 17, Thurs. **Meeting:** 7:30 P.M. Room 171, Science Building, SOSC, Ashland. Nicolette Was, Experience International volunteer from New Zealand, will speak about and show slides of New Zealand.

South Coast

April 16, Sat. **Field Trip:** Lower Illinois River. Enjoy an easy to moderate hike up lower Illinois River trail to see early wildflowers. More details in April "Bulletin."

Umpqua Valley

March 10, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse. Peter Zika to present a slide-illustrated program, "Botanist on the Amazon." Peter is lecturer/naturalist for travel adventure companies visiting tropical and polar regions. Call Mildred Thiele, 673-5397, for information.

March 19, Sat. **Field Trip:** Cow Creek to see spring flowers. Meet at BLM parking lot, 777 NW Garden Valley Blvd., for car pooling at 7:30 A.M., 8 A.M. departure. Call Richard Sommer, 673-3709, for information.

Willamette Valley

March 14, Mon. **Meeting:** 7 P.M. United Methodist Church, 600 State St. NE, Salem. Morris Johnson will talk on, "Edible and Poisonous Plants." Call 399-9680 for more information.

April 2, Sat. **Field Trip:** Margie Willis, naturalist, Oregon State Parks and Recreation Dept., will show some outstanding, but little-known botanical sites in the Columbia Gorge, east of Hood River, the Overlook Area in Memaloose State Park and Stanley Rock at Koberg Beach State Wayside. See the uncommon *Meconella oregana* and the very rare violet *suksdorfia*. Easy half mile walk at Memaloose, short, steep climb at Stanley Rock. Wear sturdy shoes. From Salem, meet at North K-Mart parking lot, 7:45 A.M. From Portland, meet at Lewis & Clark State Park parking lot, 9:15 A.M. We'll go to Memaloose first, starting from eastbound Highway Rest Area (MP 73 on I-84). Call Wilbur Bluhm, 503-393-2934, for more information.

Wm. Cusick

March 16, Wed. **Meeting:** 7 P.M. Library, LaGrande Forestry Sciences Lab., Gekeler & C Ave., LaGrande. Dr. Art Tiedemann to give a program on the effect large herbivores have on forest succession and productivity. Slides will show forests from which cattle and big game have been excluded for 30 years. Call Bob Ottersburg, 963-9660, or Kent Coe, 962-7049, for more information.

Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public. All kinds of contributions welcome.
Copy due by the 10th of the month.

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The President's Column

As spring approaches it is a good time to remember NPSO's mission; it is dedicated to the enjoyment, conservation and study of Oregon's native vegetation. It's time to remember the enjoyment of participating in field trips, the reward of conserving and protecting some rare element of our native flora, and the satisfaction of awarding grants from the scholarship funds and Oregon Dept. of Agriculture internship program which encourages botanical research and assists botany students in their education.

I urge you to participate in these activities, become involved and let your voice be heard as an advocate of our native flora. For me in central Oregon, my sense of wonder and commitment is quickly renewed as the first lomatiums or yellow bells begin to bloom.

I have been asked to represent the NPSO in Phoenix in late March at a meeting organized by the Washington Office Rare Plant Program leaders from the BLM, USFS and Natl. Park Service. They have invited representatives from native plant societies in all western states. They hope to assist us in organizing a western alliance of advocates for native plant issues that can be as more powerful lobby for rare plants in Washington, D.C. There has been a lack of representation in the past and it has been reflected in the budgets of the land management agencies. This alliance may be the first step in improving that situation.

One last note regarding EFO; I have asked Kate Lord of Portland to fulfill our Environmental Federation of Oregon commitment for this year. Primarily, she will be trying to get companies to sign on with EFO. If you have worked any hours this past year that may be applied to our hours, please let me know.

Enjoy the approach of spring!

Lisa Croft
President

Highlights of the NPSO State Board Meeting

The Board approved the 1994 budget with \$1000 for Challenge Cost Shares, six research grants at \$500 each. Money to purchase a laser printer for the Bulletin was also approved.

NPSO membership is 941 as of January 1994. The number seems to have leveled off in recent years. Frank Lang regrettably resigned as Kalmiopsis editor. Several articles are under consideration for the 1994 issue.

Landscaping with natives: The Board discussed the scope of this subcommittee, such as home gardening, landscaping with native species, etc. Initial items the group will take up include, commenting on the ODFW naturescaping book, which includes many non-native species, and looking at classifying European beachgrass noxious in certain areas along the coast (areas which are critical to wildlife, native plant communities, and special areas, such as RNA's and ACEC's).

A letter to ODFW regarding use of non-natives in elk forage seedings. They use orchard grass and non-native clovers.

Pacific Northwest Exotic Pest Plant Council: Jerry Igo reviewed its history in Florida and California. The Northwest Council will cover Oregon, Washington, Idaho, Montana and British Columbia.

The first species the group has targeted is purple loosestrife. Membership forms were distributed to all board members and chapter presidents. Contact them if interested.

Roadside sensitive plant locations should be sent to Jerry Igo who will make sure information gets to ODOT.

Jim Conley presented information on the Oregon Constitutional Amendment regarding the protection of human health and natural ecosystems. The board felt it was a good idea but beyond NPSO's scope. Petitions were given to all board members.

Rhoda Love read a letter from the Oregon Natural Desert Association regarding meeting with Secretary of the Interior, Bruce Babbitt about issues affecting eastern Oregon deserts. The board approved joining in the letter, with minor changes.

Next meeting at Mosier. See front of Bulletin.

Bruce Rittenhouse
State Secretary

NPSO 1994 Annual Meeting May 13 - 15, Ashland, Oregon

Hosted by the Siskiyou Chapter

The 1994 annual meeting will begin on Friday, May 13, with a seminar by our dinner speaker (see below) followed by a reception. On Saturday there will be field trips and the annual banquet. The business meeting will be held on Sunday morning. For information on lodging and the theater, see below. Please register in advance using the form.

SEMINAR: Friday, 4 P.M. Dr. Ertter will speak on "What is snow-wreath doing in California and why wasn't it discovered earlier?" Auditorium of the Science Building, SOSC.

RECEPTION: Friday, 5 P.M., Redford Lounge, SOSC Student Union.

FIELD TRIPS: Into the nearby mountains and valleys. See later page for details and registration.

BANQUET: Saturday, 6:30 P.M. Trinity Episcopal Church, 44 N. 2nd St. The banquet speaker will be Dr. Barbara Ertter, Associate Curator, University of California Herbarium, U.C. Berkeley. Topic: The New Face of Western Botany.

BUSINESS MEETING/breakfast: Sunday, 8 A.M. Science Building with rolls, juice, etc.

Ashland, a small town of about 17,000, can be described geographically as a strip community along the NE facing slope of the Siskiyou Mountains. Interstate 5 lies to the northeast of town. The city borders State Highway 99 (N. Main St., E. Main St. (in part) and Siskiyou Blvd.); SOSC faces the latter, at the intersection with Highway 66 (Ashland Ave. or Greensprings Hwy.). Coming from the north on I-5, get off at first interchange and take 99 into town.

LOCAL RECREATION: Get the "Southwestern Oregon Recreation Map" from Visitor Centers, BLM or Forest Service offices in southwestern Oregon, or contact Douglas County Planning, Douglas County Courthouse, Roseburg, OR 97470. Map covers area between Eugene and Crescent City, CA., and east to Crater Lake and Klamath Falls.

Registration deadline is April 15. Send form, with check made out to "Siskiyou Chapter, NPSO" to John McClendon, 105 Bush St., Ashland, OR 97520. Questions: Call 488-2918.

LODGING: Since Southern Oregon State College will be in session, no dormitory lodging will be available. We recommend making reservations as soon as possible, since the tourist season starts in May. Several high quality motels offer rooms for two at between \$45 and \$50, and for one at \$41 to \$42. The following are good and convenient to the campus:

Cedarwood Inn (has sauna) 1801 Siskiyou Blvd., 488-2000.

Ashland Valley Inn, 1193 Siskiyou Blvd., 482-2641.

Super 8 Motel, 2350 Ashland St. (Hwy. 66) 482-8887.

Palm Motel (older) \$36.50/2, 1065 Siskiyou Blvd., 482-2636.

ALSO: The Ashland Hostel (AYH), 150 N. Main, 482-9217. \$13 for non-members; reservation needed. Mostly already taken. **Camping:** Campsites available in several BLM and Forest Service campgrounds 30 mi. (40 min.) east of Ashland. Closer (6 mi.) is Emigrant Lake, a county park; this is on a first-come basis, not usually filled in May. Adjacent to I-5 between Grant's Pass and Medford is Valley of the Rogue State Park. There are many motels and B&B's in Ashland and Medford. For longer lists, request booklet from Ashland Chamber of Commerce (includes map of Ashland) at: PO Box 1360, Ashland, OR 97520; 503-482-3486, or see program booklet from the Shakespeare Festival, or call Betty McClendon, 488-2918.

LIVE THEATER: The Oregon Shakespeare Festival (Box 158, Ashland, OR 97520; 503-482-4331; FAX 482-8045) will not have begun outdoor performances. Indoor performances are scheduled as follows; for more information, send for program booklet.

BONNER (large theater) (times PM)

You Can't Take It With You. 12th (1), 14th (8).

The Pool of Bethesda (about a dying neurosurgeon) 15th (2).

Hamlet 12th (8), 14th (2), 15th (8).

Fifth of July (a family gathering). 13th (8).

BLACK SWAN (intimate theater)

Tales of the Lost Formicas (an anthropological study of us by extraterrestrials). 12th (8), 13th (2), 14th (2), 15th (2).

Oleana (shenanigans in a professor's office). 12th (1), 13th (8), 14th (8).

OTHER LOCAL THEATERS ("Off Broadway")
Oregon Cabaret Theatre: Greater Tuna Z (comedy), Th-Sun, 503-488-2902.

Actors Theatre: Charlie's Aunt (comedy), dates ?, 535-5250.

Ashland Community Theatre: Fortinbras (comedy), dates?, 482-7532.

Creating a Pine-Oak Savanna at Chicken Charley Flat

When you are in the east end of the Columbia Gorge this coming spring, please visit Chicken Charley Flat and take a look at NPSO's native plant restoration project, now in its fifth year.

Chicken Charley Flat is a 1000 foot-long strip of land between Interstate 84 and the Columbia River, near milepost 68. To get there from the Portland area, take I-84 east to the Mosier interchange at milepost 69, then turn around and head west for about a mile. Named for nearby Chicken Charley Island, the flat is easily recognized where the guardrail swings almost 200 feet away from the freeway pavement, enclosing an area of over three acres.

In 1988, the Oregon Department of Transportation (ODT) agreed to cooperate with NPSO in a project aimed at restoring native vegetation to a selected area along one of Oregon's highways. Chicken Charley Flat was the obvious choice. A desolate waste area covered with alien weeds, Chicken Charley Flat had changed little since freeway construction in the early 1960's.

In 1989, members of NPSO and Portland Garden Club started the project at Chicken Charley Flat, in cooperation with ODOT. Since the site was mostly rocks packed down by heavy equipment, ODOT brought in soil from their Mosier pit. This is a fine gravel, containing some sand and rocks as well. The soil was spread over the rocks as depths ranging from 3 inches to 4 feet, the average depth being around 12 inches.

Because of the size of the area, the project was scheduled to take place in five annual segments, each about 200 feet long. Seed collected each summer in the Gorge was sown in late fall after the soil was wetted by fall rains. The seeded area was then lightly raked. The first segment was begun in fall of 1989. The fifth and last segment was seed-

ed and raked in December 1993.

Since the objective was to create as natural-looking pine-oak savanna typical of this part of the Gorge, we planted only those native species that are found naturally within a one-mile radius of the site. As it turns out, most of these plants seem to do well in gravelly soil. Some 35 species of wildflowers and five species of bunchgrasses have been successfully grown from seed at Chicken Charley Flat.* Another 17 native species have showed up on their own.** Other species, mostly shrubs, were planted as seedlings or cuttings after being started in a greenhouse or coldframe.***

In 1990 and 1991, about 200 *Penstemon barrettiae* plants were rescued from destruction at the Hood River County gravel pit. Many NPSO and Portland Garden Club members were involved in this effort. The formerly doomed plants are now doing well at Chicken Charley Flat.

As expected, weeds are a problem requiring constant attention. Keeping the area free of aliens such as knapweed and prickly lettuce should become easier as the area fills with desirable natives. Other weeds we can only hope to keep under control, such as cheatgrass and rabbit-foot clover, should also be limited by the increasing density of native plants.

Native plants were more or less randomly seeded on this three-acre plot. The only future manipulation will be attempts to control introduced weeds. In coming years, it will be interesting to watch changes in vegetation patterns, as some species increase their share of the ground while others hold their ground or decrease. Even if we do minimize the alien species, there is no pretense on our part that we have created a three-acre native ecosystem. All we have done is to heap together many of the components of such a system. This artificial mixture may eventually equilibrate to a stable system not too different from nature.

Russ Jolley
Portland Chapter

*

Agoseris heterophylla
Astragalus hoodianus
Astragalus purshii
Balsamorhiza deltoidea
Brodiaea howellii
Ceanothus integerrimus
Chaenactis douglasii
Chrysopsis villosa

Collomia grandiflora
Crocidium multicaule
Cryptantha intermedia
Erigeron filifolius
Eriogonum compositum
Eriogonum douglasii
Eriogonum elatum
Eriogonum strictum
Eriophyllum lanatum
Erysimum asperum
Gaillardia aristata
Haplopappus hallii
Hieracium scouleri
Lewisia rediviva
Lomatium columbianum
Lomatium grayi
Lomatium macrocarpum
Lomatium nudicaule
Lomatium triternatum
Lotus nevadensis
Lupinus latifolius var. *thompsonianus*
Lupinus leucopsis
Microseris lindleyi
Monardella odoratissima
Penstemon barrettiae
Penstemon richardsonii
Phacelia hastata

Festuca idahoensis
Koeleria cristata
Poa sandbergii
Pseudoregneria spicata (*Agropyron spicatum*)
Sitanion hystrix

**

Achillea millefolium
Agoseris grandiflora
Amsinckia retrorsa
Asclepias fascicularis
Chrysothamnus nauseosus
Cryptantha flaccida
Epilobium paniculatum
Eremocarpus setigerus
Gilia capitata
Gnaphalium microcephalum
Lagophylla ramosissima
Microsteris gracilis
Navarretia intertexta
Plagiobothrys tenellus
Plantago patagonica
Stephanomeria tenuifolia
Verbena bracteata

Amelanchier alnifolia
Ceanothus integerrimus

Penstemon barrettiae
Pinus ponderosa
Philadelphus lewisii
Purshia tridentata
Quercus garryana
Ribes sanguineum
Rosa nutkana
Sedum spathulifolium

Bulletin Mailer Needed

Do you live in or near Portland? For a few hours every month, you can provide a vital NPSO service -- mailing the monthly Bulletin.

The present mailers, after several years, are ready to share the pleasure. It's not difficult, taking two people about four hours plus picking up from the printer in southeast Portland and delivering mailbags to the Portland main postoffice.

You're committed to this one day a month, usually between the 20th and 25th. A backup crew is available. You can do it alone, but it's more fun with a spouse or a friend. For details and persuasions, call Louise Godfrey at (503) 223-4785.

Kalmiopsis Editor Resigns

Due to increased duties as the Chair of Biology at Southern Oregon State College, Frank Lane regrettably resigns as editor of Kalmiopsis immediately. The state board of directors wants to express its gratitude for Frank's efforts in his role as editor. Because of these efforts, NPSO should be proud of this publication. The board wishes Frank the best of luck in his new challenges. NPSO is currently looking for a new editor to replace Frank. If you are interested, contact Lisa Croft.

A Time To Act!

Development threatens the Columbia River Gorge. To attend a special workshop on March 12, at Skamania Lodge, Stevenson, WA., call Friends of the Columbia River Gorge, 503-241-3762, or write to 319 SW Washington, Suite 301, Portland, OR 97204. Cost is \$12.50, which includes lunch.

The *Endangered* Endangered Species Act

The ESA (Endangered Species Act) is currently up before Congress for reauthorization after a one year extension in 1993. Originally written in 1966, amended in 1969 and 1973 (Dingell Bill), with subsequent minor amendments, it is generally conceded to have done a reasonably good job on federal land, but not on private lands. Reauthorization bills have been introduced in both houses of Congress (S. 921 and H.R. 2043). However, several other bills seeking to make significant changes to the ESA have also been introduced. This group of bills essentially weaken or water down the Act, generally requiring a heavy weighing of economic impact in determining the status of plant and wildlife species.

President Clinton recently said he believed that another extension of the ESA would easily pass in 1994. Mike Salsgiver of Senator Hatfield's office agrees on grounds that conservation issues are considered politically dangerous in an election year. Reauthorization may well be postponed until 1995. Recent inquiries of both Oregon senators as well as of Congressman Kopetski elicited the following answer: "We favor the concept in principle, but some changes should be made." Two have not decided what changes. Senator Packwood had indicated his preference in his sponsorship of S. 1521, a bill opposed by the Endangered Species Coalition.

In struggles and confrontation, opponents educate each other. This was certainly true in the hearings subsequent to President Clinton's Forest Conference in Portland. Logger after logger swore eternal fidelity and undying love "for the forest," an eloquent attempt to rebut native plant, butterfly, wildlife, fishing, birding, hiking, mushroom and conservation "freaks," as we were called. This is just the overture to what we can anticipate, as well as a well-orchestrated attempt to pit economics against our natural world as the debate over the ESA heats up.

Signs are already evident that a carefully planned lobbying and media campaign will begin right after the November, 1994 elections to weaken the ESA. In fact, well-organized opposition to the ESA has already surfaced. Opponents of the Endangered Species Act offered an amendment to the National Biological Survey (NBS) during the

recent House floor debate, requiring written consent of the owner before private property could be entered by a federal official. This elevates the trespass standard beyond the current threshold established by most state laws. The House passed this amendment resoundingly, 309/118. Regarded as a test vote on the ESA, it is an indication of things to come during the ESA reauthorization debate. It is clear that close teamwork among environmentalists, as well as strong congressional leadership, is needed to win the reauthorization fight.

Responding to the opposition may not be sufficient to preserve and fund the ESA. It is very important that groups such as NPSO not merely address themselves "to the choir," but engage actively in dialogue with their elected representatives and with the public at large. Human population control, an ultimate solution to species extinction, will not occur in our lifetime, nor in our children's. Even if absolutely necessary to the limited carrying capacity of the earth, as some believe, it will likely never be universally practiced.

What can we do?

Broad environmental coalitions of environmental and recreational groups such as sport fishermen, hikers, X-C skiers, bikers, campers, botanists, mycologists, native plant hobbyists, hunters, canoeists, etc., as well as commercial fishermen, need to be formed now. In addition, each group needs its own action plan for raising funds, to support the coalition with person power, to alert their memberships, and to begin its own publicity blitz in the media. It is important that members contact their senators and representatives. Individually written letters are more effective than preprinted letters or postcards. The efforts of ESC (the Endangered Species Coalition), NRDC (the Natural Resources Defense Council), a national organization, and our own ONRC (Oregon Natural Resources Council), all of whom lobby for reauthorization of an effective ESA need our support with letters, dollars and features in organizational newsletters and in the various public media.

It is not one day too soon to write our elected officials in Washington.

UNCOMMITTED HOUSE MEMBERS

OR 03 Wyden

OR 04 Rep. DeFazio

OR 05 Rep. Kopetski

UNCOMMITTED SENATOR

Sen. Hatfield

Here's where you can get more information.

The Endangered Species Coalition, 666 Pennsylvania Ave. SE, Washington DC 20003 (202-547-9009) is currently taking the lead as ESA lobbyist. They publish a monthly update on activities related to the issues; they welcome financial contributions in any amount.

A free copy of Building Economic Incentives Into the Endangered Species Act is available to members of the Endangered Species Coalition by Defenders of Wildlife, Northwest Regional Office, 434 SW Iowa St., Portland OR 97201.

Rocky Barker's book, Saving All the Parts: Reconciling Economics and the Endangered Species Act, explores the coexistence of nature and the economy and culture of the Pacific Northwest. Cloth, \$30, paper, \$15.95 Available from Island Press, 1718 Conn. Ave. NW, Suite 300, Wash., D.C. 20009 (202-232-7933) Fax (202-234-1328).

Faith Campbell in the Washington office of The Natural Resources Defense Council, 1350 N.Y. Ave. NW, Wash. D.C. 20005 (202-783-7800) Fax (202-783-5917) can furnish a summary of the testimony given at the Merchant Marine and Fisheries Subcommittee of the House Environment and Natural Resources Committee hearing on Medicinal Uses of Plants.

What bills should we write or call about?

BILLS THE ENDANGERED SPECIES COALITION SUPPORTS

ESA Reauthorization

H.R. 2043 - "The Endangered Species Act Amendments of 1993." Introduced by Congressmen Studds (D-MA), Dingell (D-MI) and Saxton (R-NJ), with 100 co-sponsors, including ELIZABETH FURSE (D-OR).

Would set deadlines for completion of recovery plans and give priority to multi-species plans.

Establish a revolving fund for grants to states, counties or municipalities for such plans.

Provide financial incentives and technical assistance to private landowners to implement recovery actions for listed species and conservation measures for candidate species.

Allow citizens to file suit to protect listed species in emergencies without the 60 days' notice.

Contains appropriations for ESA administration which substantially increases the funding ceilings for Fish and Wildlife Service and National Marine Fisheries Services to implement the federal endangered species program.

According to Walter Sanders, Administrative Assistant to Congressman John D. Dingell (co-author), H.R. 2043 is currently in the House Merchant Marine and Fisheries Sub-Committee awaiting executive comments from the Clinton administration. Chair of this committee is Gerry E. Studds (co-author), 1334 Longworth House Office Building, Wash. D.C. 20515. Markup is expected this year.

S. 921 - "The Endangered Species Act Amendments of 1993." Introduced by Senators Baucus (D-MT) and Chafee (R-RI) with 17 co-sponsors. Same provisions as H.R. 2043, except for the study for plants and citizens suit language. Contains requirement for all federal agencies to consult with the Secretary of Interior on actions outside the U.S. to ensure that these do not jeopardize the continued listing of a listed species.

BILLS THE ENDANGERED SPECIES COALITION OPPOSES

S. 1521 - Endangered Species Act Procedural Reform Amendments of 1993 - Introduced by Senators Shelby (D-AL) and Gorton (R-WA), with four other co-sponsors, including BOB PACKWOOD (R-OR). Opposed by ESC because this bill is a companion to HR 1490 which would similarly undermine the Act. S. 1521 would - allow permit system for exempting entire regions and broad categories of activities from the ESA.

Would - require physical evidence of injury to an individual of a listed species (i.e. a dead body) for "taking" (prosecutable offenses under the ESA).

Would - require economic impact to be considered before listing a species. Citizens would not be able to bring suit against anyone except the federal government for violations of the Act. Deletes any duty for private developers to pay for mitigation measures imposed as a condition for receiving an exemption and requires the federal government to pay half the costs for implementation of incidental take permits for private development.

H.R. 1490 - "Endangered Species Act Procedural Reform Amendments." Introduced by Congressman Tauzin (D-LA) and Fields (R-TX). Makes major substantive procedural changes weakening the protection under the Act and burdening its implementation.

H.R. 1992 - "Endangered Species Improvement Act" Introduced by CONGRESSMAN BOB SMITH (R-OR), with 12 co-sponsors. "To ensure that listing of species is in the public interest, that species are listed only on the basis of actual threats, not speculative future threats to their ex-

istence, that listing of species and designation of their critical habitats will be subject to blind peer review. "

H.R. 1414 "Human Protection Act." Introduced by Congressman Hansen (D-UT) and 32 co-sponsors, this bill would amend the ESA so that species would not be protected if the cost of protection outweighed the economic "benefits."

H.R. 2207 "Common Sense Amendments." Introduced by Congressman Brewster (D-TX) and 18 co-sponsors to limit the application of federal endangered species regulations to trophy hunters overseas.

H.R. 888 "A Bill to Amend the Endangered Species Act of 1973." Introduced by Congressman Fields (R-TX) and three co-sponsors. Excludes taking or jeopardy decisions which would result from modifications to a "sole source aquifer."

We cannot be sure of an "easy" passage of ESA reauthorization, no matter what President Clinton says. If the "bad" bills above aren't enough, we probably have not seen the last of amendments calculated to reduce ESA funding, to diminish the importance of species relative to economics, or to circumvent the intent of ESA legislation altogether. NPSOer's, let's be PROACTIVE on this one and get our act together. Inform yourselves! Give some dollars! Write your senators and congressperson now! Put the ESA on your Chapter agendas! Schedule a Chapter meeting soon on the ESA and vitalize your members!

Mariana D. Bornholdt
Willamette Valley Chapter

State Office Nomination Biographies

The nominating committee is pleased to offer the following candidates for the NPSO Board of Directors. Ballots are included in this issue, and must be received by April 15 to be counted. Ballot inserts are preaddressed and only need be folded along dotted lines, stamped and taped or stapled to be mailed. Winners will be notified. Officers will begin their terms at the annual meeting in Ashland. Many thanks to all the candidates.

PRESIDENT

BRUCE RITTENHOUSE is currently State Secretary. He is involved in developing a chapter on the south coast. His interests include rare plant monitoring and protection, native plant restoration, coastal sand dune preservation, European beachgrass management, conservation biology, plant reintroduction and recently lichen and bryo-

phyte identification in old growth forests. He is employed at the BLM in North Bend.

VICE PRESIDENT

RHODA LOVE has been active in NPSO for many years, as past state president, former west side conservation chair and currently state vice president and associate editor of "Kalmiopsis." She teaches botany courses at Lane Community College and is a member of the Emerald Chapter.

SECRETARY

JULIE THIEL is a member of the Willamette Valley Chapter, and is currently employed as botanist in the Yamhill Resource Area, Salem District BLM. She has a biology degree from Western Oregon State College and has done post baccalaureate work at OSU. She is a founding member of the Salem Environmental Council and enjoys teaching botany to children.

CLAIRE HIBLER has worked for the Salem District BLM since 1985. Her interests include biology, botany and managing lands for healthy ecosystems. Her education includes degrees in general biology and forest management. She has been an NPSO member since 1990 and is looking forward to being active in NPSO affairs.

TREASURER

KARI YANSKEY is currently NPSO treasurer. She earned her BS degree from Boise State and currently works in the Umatilla National Forest, North Fork Ranger District. A member of the Blue Mountain Chapter, her interests include general botanizing and learning the native flora.

BOARD OF DIRECTORS

JERRY IGO is currently on the Board. He studied botany under Drs. Helen Gilkey and Irene Hollenbeck. Conducts plant surveys for USFS, BLM and ODA. He is active in Mid-Columbia Chapter and on the Board. He teaches plant identification classes at Leach Botanical Garden, and his video tapes are frequently seen around the state.

JOHN KING is retired from a career in engineering and management in a major oil company. An NPSO member since 1967, he served on many committees and is past president of the Portland Chapter. He has been a member of the Audubon Society since 1965 (serving on its Board for 12 years) and of the Geological Society of Oregon. ETHEN PERKINS works as an environmental consultant in Eugene. He has been previously employed as Lands Steward for the Iowa TNC, worked with Dave Wagner at the UO Herbarium and is past director of the Malheur Field Station. Ethen feels that "NPSO must be a credible advo-

cate and vanguard educator for Oregon's native plants and habitats, which requires taking on roles that challenge and support people and institutions that may not consider native plants in their land use decisions."

PETER ZIKA currently holds a board of directors position. He has been a botanist for the Oregon Natural Heritage Program, an environmental consultant for Salix Associates, research associate at OSU, and is a lecturer/naturalist for travel adventure companies. He is also involved with *Carex* Working Group, which is concerned with identifying Oregon's sedges.

PNW Exotic Pest Plant Council

In a clarification and correction of last month's article, Dave Langland reports that until the council is incorporated checks should be made out to him personally. The correct address is 4409 SW Obsidian, Redmond, OR 97756.

Mount Pisgah Arboretum Seeks Nature Guides

Mount Pisgah Arboretum, in Eugene, is looking for volunteer nature guides for the 13th year of its Spring Outdoor Education Program, April 22 to June 3. Guides lead elementary school children, teaching them about the local plants and animals. Volunteers get free educational materials and natural history training, at the sessions in March and April. For more information, call the Education Coordinator, Fran Rosenthal, at the Arboretum office, (503) 747-3817.

Herbarium Open House

All NPSO members are invited to an open house and tours of the new accommodations of the combined UO/OSU herbaria planned for March 2, 2 to 5 P.M. in room 1045, Cordley Hall, OSU campus.

1994 NPSO/ODA Conservation Biology Internships

During the 1994 field season, the Oregon Department of Agriculture and the Native Plant Society of Oregon will once again be sponsoring internships in conservation biology. This program, in

effect since 1990, is intended to provide an initial research experience to individuals considering conservation biology as a career choice. Open to anyone (except previous participants), priority will be given to life science (especially botany or biology) undergraduates, or individuals seriously thinking of a change in career orientation towards conservation.

We are recruiting for two full-time summer interns, who will each work a minimum of 10 weeks. We are especially interested in anyone who can be available by mid-May. Interns contribute field and/or laboratory assistance to ODA/OSU scientists working on one or several projects during the summer. Interns may work primarily in plant population demography (dealing with the sampling of permanent plots and rare species population reestablishment), or they may focus on evolutionary biology and taxonomy of endangered species, possibly assisting in a molecular systematics laboratory.

Interns receive a summer stipend of \$2000 in addition to all field expenses (including full per diem when out over night, and all transportation). Extensive field work (including considerable overnight camping) is required for the demography interns, less so for the evolution position. All activities will be coordinated from Oregon State University in Corvallis, requiring interns to live in the mid-Willamette Valley.

The last day for receipt of internship application materials is March 25, 1994. If you would like more information on how to apply or have any other questions, please contact:

Dr. Bob Meinke
Dept. of Botany and Plant Pathology
Cordley Hall 1034
Oregon State University
Corvallis, OR 97331
(503) 737-2317

Saturday Field Trips for NPSO's 1994 Annual Meeting

All schedule field trips will take place on Saturday, May 14. We will carpool. Meet at 9 A.M. for all trips (except Greensprings which will meet at noon) in the parking lot at the corner of Mountain and Henry streets, across from the Southern Oregon State College music building. Bring lunch and water, and be prepared for varying weather conditions. Choose from the following list of field trips; indicating first, second and third choices on your preregistration form. Sign up early for the best selection.

NATIVE GRASS: Wayne Rolle will lead a one mile moderate hike near the Applegate Lake to a diverse native grass stand. Afterwards there will be a stop at the J. Herbert Stone Nursery to see and discuss the U.S. Forest Service native grass propagation efforts.

ILLINOIS VALLEY: Anita Seda will lead a trip to a *Darlingtonia californica* fen at Sand Flat near \$8 Mtn. *Hastingsia bracteosa*, *Carex livida* and *Cypripedium californicum* will be seen along with many other Illinois Valley endemics.

GREENSPRINGS: Richard Brock will lead a half day trip to vernal pool habitats in the Lincoln/Pinehurst area. There will be stops along the road to see *Limnanthes floccosa*, ssp. *bellingeriana*, *Mimulus pygmaeus* and *Isopyrum stipitatum*.

NATURE CONSERVANCY PRESERVES: Darren Borgias leads a trip to several southern Oregon Preserves to botanize and discuss issues such as: restoration, rare plant monitoring and weed control. Possible moderate walking.

APPLEGATE VALLEY: Barbara Mumblo leads this one, which will include moderate walking. Species which might be seen include: *Mimulus kelloggii*, *Sedum oblancheolatum* and *Rhamnus crocea* ssp. *illicifolia*.

Clip or copy

Annual Meeting Registration	
Name (s).....	
Address & phone.....	
Registration fee enclosed (\$5 per person).....	persons
Banquet (\$12.50 per person).....	persons
Field trip choice	
First.....	
Second.....	
Third.....	

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 VICE PRESIDENT Rhoda Love. 393 Ful Vue Dr, Eugene 97405-2706; 345-6241
 SECRETARY Bruce Rittenhouse. 1170 Michigan, Coos Bay 97420; w:756-0100; h:888-9328
 TREASURER Kari Yanskey. PO Box 64, Ukiah 97880; 427-3063

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 SISKIYOU David Kennedy. 8394 Wagner Creek Rd, Talent 97540; 535-6383
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 WM. CUSICK (La Grande) Bob Ottersburg. PO Box 885, La Grande 97850; 963-9660

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 CONSERVATION, EAST SIDE . . . Stu Garrett. 21663 Paloma Dr, Bend 97701; 389-6981
 CONSERVATION, WEST SIDE . . . Kate Dwire. 429 SW 10th St., Corvallis 97333; w:754-4666; h:757-7115
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 KALMIOPSIS EDITOR Frank Lang. 535 Taylor St, Ashland 97520; w:552-6341; h:482-5235

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____

State _____ ZIP+4 _____ - _____

Phone _____

Chapter (if known) _____

Is this a change of address?

If so, please write your old address here:

Please make checks for dues and contributions payable to:
 NATIVE PLANT SOCIETY OF OREGON

DUES include monthly *Bulletin* and annual *Kalmiopsis*.

Full membership is for calendar year, January to December.

() New () Renewal

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 () Regular \$12
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 () Sustaining \$30
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 but not have "membership" status*

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Jean Davis Memorial Scholarship Fund. \$ _____

Leighton Ho Memorial Field Botany Award Fund. . \$ _____

Rare and Endangered Plant Fund. \$ _____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

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NATIVE PLANT SOCIETY OF OREGON

General Business Address: P. O. Box 902, Eugene, OR 97440

or correspond directly with the Officers and Committee Chairs listed on the inside back page.

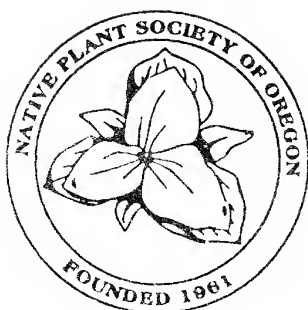
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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

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State News

May 13 - 15 **Annual Meeting:** In Ashland. See page 50, and also March Bulletin.

Chapter News

Blue Mountain

- April 4, Mon. **Meeting:** 7 P.M. Small Business Development Center, 37 SE Dorian, Pendleton. Charlie Johnson, area ecologist, USNF, will speak on "The Subalpine of the Wallowa Mountains: Plant Communities and Flora."
- April 17, Sun. **Field Trip:** Carpool to Jump-off Joe Butte, Kennewick, WA, to see rosy balsamroot, and to Twin Sisters on the Columbia. Meet, NE corner, Safeway parking lot, Pendleton, 8 A.M. Leader is Bruce Barnes, 276-5547.
- April 23, Sat. **Field Trip:** Jointly with Wm. Cusick Chapter. Meet at the store in Troy, 9 A.M., for a hike into the Wanaha Wilderness. Call Marty Stein, 426-3443, or Bob Ottersberg, 963-9660, for information.
- April 30, Sat. **Field Trip:** Boardman Bombing Range. Led by staff of the Nature Conservancy. Meet at NE corner, Safeway parking lot, Pendleton, 8 A.M. Call Bruce Barnes, 276-5547, for information.
- May 2, Mon. **Meeting:** 7 P.M. Small Business Development Center, 37 SE Dorian, Pendleton. James McIver, LaGrande entomologist, will speak on arthropod communities on a native plant.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

Corvallis

- April 2, Sat. **Field Trip:** Phil Hays will lead a trip to McDowell Creek to see *Scoliopus hallii* (fetid adder's-tongue) in bloom. Meet, 9 A.M., in the parking lot across from the campus Beanery (26th and Monroe). Call Dick Brainerd, 758-4500, for information.
- April 11, Mon. **Meeting:** 7:30 P.M. Room 2087 Cordley Hall, OSU campus. Wilbur Bluhm will speak on "Native rhododendrons." Call Keli Kuykendall, 758-8409, for information.
- April 23, Sat. **Field Trip:** Columbia Gorge wildflowers. We'll explore some botanical hotspots of the Gorge. Meet to carpool, 7 A.M., in the parking lot across from the campus Beanery (26th and Monroe), or the Multnomah Falls parking lot on I-84, 9 A.M. Prepare for a daylong trip. Call Dick Brainerd, 758-4500, for more information.

Emerald

- April 7, Thurs. **Field Trip:** 5:30 P.M. Evening wildflower walk with Dave Wagner. Meet at Mt. Pisgah Arboretum Nature Center. \$2 donation to the arboretum.
- April 8, Fri. **Field Trip:** 10 A.M. to noon. Wildflowers of the arboretum. Led by Rhoda Love. Meet at Mt. Pisgah Nature Center. \$2 donation.
- April 16, Sat. **Field Trip:** 9 A.M. Jenny Dimling leads a trip to Gold Point above Fall Creek, to look for *Romanzoffia tonsonii* and *Juncus kelloggii*. Meet at S. Eugene H.S. parking lot.
- April 25, Mon. **Meeting:** 7 P.M. Morse Ranch Park. Peter Zika will present "A Naturalist Visits the Rainforest Rivers of South America." Directions from downtown Eugene: Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E). Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot.

High Desert

- April 26, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Susan Wilcox, Berry Botanic Garden, will speak on "Gardening with native plants."
- May 21, Sat. **Field Trip:** A day trip to an area between Bend and Madras where we will see efforts to restore damaged grassland and riparian ecosystems. Call Stu Garrett, trip leader, for information at 389-6981, evenings.
- May 24, Tues. **Workshop:** 3 - 8:30 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. "Celebrating the wildflowers of central Oregon -- a workshop." Learn how to identify the common wildflowers of central Oregon. Hosted by the High Desert Chapter. Call Cindi O'Neil, 389-3085, for more information.

Mid-Columbia

- April 6, Wed. **Meeting:** 7:30 P.M. Mosier School. Rob Kavanaugh, the "oaks man" of Washington, will give a presentation on the ecology of the Oregon white oak.
- April 10, Sun. **Show:** The 20th annual Wildflower Show, Mosier School, 10 A.M. to 4 P.M.
- April 16, Sat. **Workshop:** Plant-keying workshop at Jerry Igo's on Dry Creek Rd., near Mosier, 9 A.M. to 4 P.M. If you always wanted to learn to key plants, but were afraid to plunge in to Hitchcock, this is your chance. Free. Can accommodate about 30. Call 478-

3293.

May 4, Wed. **Meeting:** 7:30 P.M. Mosier School. Stu Garrett, High Desert Chapter, will give a presentation.

North Coast

April 16, Sat. **Field Trip:** Hike to summit of Neah-Kah-Nie Mt. Three mile round trip. Meet, 9 A.M., at Tillamook PUD parking lot, or, 10 A.M., at trail head. Call trip leader Jim Winslow, 842-4131, for information.

April 18, Mon. **Meeting:** 7:15 P.M. Tillamook United Methodist Church, 3808 12th St. Joint environmental meeting with American Association of University Women. Speaker: Kris Woolpert. Note: This replaces regular April 26th meeting. Call Betty Stone, 842-4350, for information

Portland

April 2, Sat. **Field Trip:** Jerry Igo will show interesting flowers around the back roads of Mosier. Meet at Lewis & Clark State Park, 8:30 A.M., or Mosier School, 9:45 A.M. For more information on all field trips call 639-3353.

April 9, Sat. **Field Trip:** Russ Jolley, with Friends of the Columbia Gorge, will lead a trip to 3 new sites in Washington. Leave 8:30 A.M. from Oregon Dept. of Transportation parking lot, NE 60th and Glisan, Portland.

April 12, Tues. **Meeting:** 7 P.M. First United Methodist Church, 1838 SW Jefferson St., Portland. Trygve Steen, biology faculty, PSU, will talk on President Clinton's "Option 9": Implications for ecology and the biodiversity of Pacific NW forests.

April 16, Sat. **Field Trip:** To the Weldon Wagon Trail in Washington to see early and rare flowers and wonderful views. Meet at Lewis & Clark S.P., 8:30 A. M. or Whitewater Market, Husum, 10:30 A.M.

June 2-5, Th.-Sun. **Field Trip:** Proposed. A special 4 day, professionally guided trip to Hart. Mt. N National Wildlife Refuge, to discover and photograph wildflowers in that unique geological region of southern Oregon. All meals, transportation and accommodations included for \$395, with 9-person maximum, 6-person minimum. A \$50 tax deductible donation will go to NPSO. Call Annmarie Housley, 292-0189, for more information.

Siskiyou

April 21, Thurs. **Meeting:** 7:30 P.M. Room 171, Science Building, SOOSC, Ashland. John Erwin will dazzle us with his wonderful wildflower slides. No chapter meeting in May.

April 23, Sat. **Field Trip:** Ramona Osburn will lead to the Britt Woods to see *Fritillaria gentneri*. Half day trip. Meet, 8:30 A.M., K-Mart parking lot (near McDonald's) or 9 A.M. at Van Wey's Market, Jacksonville.

South Coast

Organization: The state board of directors of NPSO has approved the formation of the South Coast Chapter. The first officers are: Paul Bakke, president; Tim Rodenkirk, vice president; Jennifer Sperling, treasurer; Estella Morgan, secretary; Bruce Rittenhouse, conservation chair. The chapter will initially be field-trip oriented to try and establish a strong base of members. Projects may include helping with western

lily protection, and European beachgrass management..

- April 16, Sat. **Field Trip:** Lower Illinois River. Enjoy an easy to moderate hike up lower Illinois River trail to see early flowers. Meet: Gold Beach Ranger District, 9 A.M., to carpool, or 10 A.M., Cougar Store in Agness. Call Bruce Rittenhouse, 888-9328, for information.
- May 21, Sat. **Field Trip:** Cape Sebastian. Enjoy a nice walk to view coastal headland wildflowers. Meet at Gold Beach Ranger District, 10 A.M. Call Bruce, as above.
- June 4-5 Sat-Sun. **Field Trip:** Vulcan Lake, Kalmiopsis Wilderness. Pre-registration required. Two day hikes into Kalmiopsis wilderness from Vulcan Lake trailhead. Limit of 12 because of wilderness restriction. May have two groups if interest is high. For registration and information call Bruce Rittenhouse at 888-9328.

Umpqua Valley

- April 14, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse. Ken French will speak on Oregon's noxious weed program. Call Russ Holmes, 672-4635, for more information.
- April 23, Sat. **Field Trip:** Up the South Umpqua to look for spring flowers. Meet at BLM parking lot, 777 NW Garden Valley Blvd., 7:30 A.M. for carpooling, with 8 A.M. departure, or at Fat Harvey's in Canyonville, for 8:30 A.M. departure. Call Richard Sommer, 673-3709, for more information.

Willamette Valley

- April 2, Sat. **Field Trip:** Margie Willis, naturalist, Oregon State Parks and Recreation Dept., will show some outstanding, but little-known botanical sites in the Columbia Gorge, east of Hood River, the Overlook Area in Memaloose State Park and Stanley Rock at Koberg Beach State Wayside. See the uncommon *Meconella oregana* and the very rare violet *suksdorfia*. Easy half mile walk at Memaloose, short, steep climb at Stanley Rock. Wear sturdy shoes. From Salem, meet at North K-Mart parking lot, 7:45 A.M. From Portland, meet at Lewis & Clark State Park parking lot, 9:15 A.M. We'll go to Memaloose first, starting from eastbound Highway Rest Area (MP 73 on I-84). Call Wilbur Bluhm, 503-393-2934, for more information.
- April 18, Mon. **Meeting:** 7 P.M. United Methodist Church, 608 State St. NE, Salem. Tom Kaye will talk on "The reintroduction of the endangered pink sand verbena on the Oregon coast." Call 399-9680 for more information.
- May 1, Sun. **Field Trip:** Here's your chance to botanize in one of the least-known of the Columbia Gorge's state parks. -- Seneca Fouts Memorial Park -- just west of Hood River. Margie Willis will also introduce us to this area of wildflowers and early Oregon history. Easy, level walking. From Salem, meet at North K-Mart parking lot, 7:45. From Portland, as above. For more information call Wilbur Bluhm, 393-2934.

Wm. Cusick

- April 20, Wed. **Meeting:** 7 P.M. Baker Ranger District Office, Wallowa-Whitman National Forest, 3165 10th St., Baker City. Paula Brooks will give a slide show on spring mushrooms of northeastern Oregon, with emphasis on safe collection of edible species. And she will discuss the Forest Service permit process for collecting mushrooms. Please be prompt. Call Paula, 523-6391, for more information.
- April 23, Sat. **Field Trip:** Marty Stein will lead a trip to the Wenaha River starting at its Conflu

ence with the Grande Ronde, near Troy. Meet at the Troy store, 9 A.M. This trip is jointly sponsored with the Blue Mountain Chapter. If you want to carpool from LaGrande or Elgin, call Bob Ottersberg, 963-6043. It will be a gentle day hike, so bring lunch, and be prepared for any weather.

May 14, Sat.

Field Trip: Jean Findley will lead a walk and work party to the Leslie Gulch Area of Critical Environmental Concern. Five listed plant species and unique geology occur at this site. Bring gloves and digging tools for a little weed control. Camping is possible. Meet at Marsing Park on the west side of the Snake River, 9:30 A.M., or the Leslie Overlook, 10:30 A.M. Call Jean, 473-6233, for more information.

The Plant Puzzle

Sponsored by the Siskiyou Chapter

Do you recognize this native wildflower?

The first person giving the correct scientific name will win a prize.

Send your guess on a postcard to:

Peter Zika, 4230 NW Clubhouse Pl., #1, Corvallis, OR 97330



Rhoda Love of Eugene was the first to solve the February puzzle -- Labrador tea, *Ledum groenlandicum*

Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public. All kinds of contributions welcome.

Copy due by the 10th of the month.

CREDITS: Identify author and affiliation. If not original, cite source and date.

Indicate if it is to be used in entirety, or to be excerpted at editor's discretion.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints are useable. Some McIntosh graphics can be used. Contact editor for our current needs, or send illustrations with the article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual," where appropriate.

FORMAT: Submissions can be in any form, but at present editor prefers hard copy. Use of a modem is not possible at this time. Editor follows "The Associated Press Stylebook." For further details consult editor

ORIGINALS: Submissions are not returned, unless requested.

President's Column

As my term in office comes to a close I feel it is ok for me to indulge in a column of pleading, reminding and nagging.

First, a reminder that the deadline for submission of proposals to the Board for NPSO challenge cost-share dollars are due on May 1. These proposals should be sent to me. Please see the back of the Bulletin for my address. Again, these proposals should be no more than ONE page in length, and contain, in addition to the guidelines published in the February Bulletin, a list of all other contributors, including NPSO chapters, the benefits of this project to native plants, the educational aspects and the potential or objectives of the project. The maximum award for each project is \$500. If you have additional questions, please feel free to contact me.

Second, there are several Board level positions to be filled. The journal, *Kalmiopsis*, needs an editor. There is an associate editorial board which assists the editor, and most of the material for the next issue is in place. This is an absolutely essential position for us to fill. Frank Lang has produced a very professional journal that is an excellent reflection on the Society. We cannot afford to let this fade away. Any unique or imaginative ideas will be entertained as to how to fill this position.

We also need a chair for the legislative committee. Esther McEvoy has held this position for eight years and has now resigned. It is important that whoever fills this position have easy access to Salem and an interest in the political process.

Last, the NPSO will be sponsoring the Rare and Endangered Plant Conference in Bend this fall. If you have an interest in how this conference is to be organized or wish to help, please contact Stu Garrett.

We had a wonderful Board meeting in Mosier and are grateful for the burst of spring provided on that Saturday complete with sunshine, grass widows and yellow bells...ahhh spring at last!

Lisa Croft
NPSO President

NPSO Items For Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (503-389-6981). Individuals may order posters at \$12 each plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett (see above). \$1 each; minimum order is five.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one drawn by Valerie Sloane. They are printed on pastel parchment-style paper with matching envelopes. Notecards are sold through NPSO chapters, and cost \$4 per packet. Contact Lisa Croft, 699 W 2nd, Prineville, OR 97754 (503-447-5270).

NPSO T-Shirts are available in various colors and designs, and are sold through NPSO chapters.

NPSO'S Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 652 W 10th St., #1, Eugene, OR 97402 (503-485-1868). \$5 each plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory lists names, addresses and phone numbers of members (April, 1993). Available from Jan Dobak, 2584 NW Saver St., Portland, OR 97210-2412. \$2 each.

Bulletin Mailer Still Needed

As we reported last month, one or two persons is/are needed one day a month, to pick up Bulletins from the printer, prepare them for mailing and take them to the postoffice. Living in the Portland area is obviously preferable. Contact Louise Godfrey, 503-223-4785, for more information.

The New Herbarium

With the aid of a grant from the National Science Foundation, renovation and construction has been completed on a consolidated new herbarium facility at Oregon State University. This concludes a two year process which began in November, 1991, when the first suggestions were made to combine the University of Oregon and OSU herbaria in Corvallis. The next two years will see the integration, nomenclatural updating, and refileing of all OSU and UO specimens into a single collection. Dr. Scott Sundberg has begun an NSF-funded position to carry out the collection consolidation. He will be assisted in this undertaking by OSU graduate and undergraduate students.

The combined herbaria contain approximately 330,000 vascular plant, bryophyte, algal and fungal specimens. Another 32,000 specimens, the Morton E. Peck Herbarium from Willamette University, are maintained as a separate collection. The combined collections are stored in 296 herbarium cases housed in two adjoining rooms. The majority of the cases are mounted on 15 mobile carriages. A typical carriage holds 18 cases weighing in at a hefty 4.5 tons. However, with a 10,000 to one gear reduction, the carriages are easily rolled on fixed tracks. The advantage of this "mobile storage system" is the reduction of aisle space. The carriages are rolled apart when an access aisle is needed, and pushed together when not in use.

The system is designed to withstand a major earthquake of up to Richter magnitude 6.5. The paleontology collections at the Los Angeles County Museum are housed in a similar facility and are reported to have survived the recent earthquake undamaged.

The newly consolidated herbarium hopes to continue serving as the central resource for the documentation and study of Oregon's rich flora. The herbarium is dedicated to research in plant systematics, public service through the identification of plant specimens, and answering inquiries about plants of the Pacific Northwest. In addition to providing the principal training ground for students in plant systematics, the herbarium serves as a source for information and specimens for researchers at OSU and other institutions. The herbarium is utilized for providing identification, distribution data, and bibliographic data on Oregon plants, including rare and endangered plant spe-

cies. It advises on floristic surveys of important natural areas. And it gives information on human-related concerns, such as weeds, edible plants, poisonous plants, wildlife food plants, anthropological materials, wildflowers, and cultivated plants.

The herbarium is generally open to the public from 8 A.M. to 5 P.M. on weekdays. Please contact the herbarium curator, Dr. Richard Halse, 737-5297, or me, Aaron Liston, 737-5301, if you would like to plan a visit. We are also interested in training volunteers to assist in herbarium consolidation. Let us know if you are interested in participating in this process.

Aaron Liston
Herbarium Director
Dept. of Botany and Plant Pathology
Oregon State University
Corvallis, OR 97331-2902

We cannot, as we all know, believe everything we read. It was reported here that the fourth NPSO/ODA summer intern's report for the 1993 field season had not been written. But, mirabile dictu, here it is!

Stalking the Elusive *Cimicifuga elata*

Matt and I set out that final Friday morning to the Medford area in search of *Cimicifuga elata*. Plant Conservation Biology Program director Tom Kaye had sent us off to check on a site reported to us by the BLM in Medford. It was the last day of my two week stint with the plant conservation biology crew where, during that time I had studied and searched for four plants -- *Haplopappus radiatus* (I almost regretted that it had been such a good year for this plant.), *Lupinus cusikii* (my favorite, the cute cushion lupine), *Aster vialis* (loves to grow with healthy poison oak), and *C. elata*. On this hot, August day, I was to find out why the previous year the crew had made their t-shirts emblazoned with: "Stalking the elusive *Cimicifuga elata*."

Cimicifuga elata (tall bugbane) is an herbaceous perennial native to Oregon and Washington west of the Cascades. It grows 1-2 meters tall and has clusters of white, apetalous flowers. *C. elata* tends to grow in populations of less than 100, on north-facing slopes on seeps in old-growth forests. It is a candidate for state protection as a threatened or endangered species, and is currently protected as a

sensitive species on Forest Service and BLM lands. Logging of old-growth forests is suspected to pose a threat to *C. elata* populations.

We got an early start that morning, recognizing the two to three hour drive just to get to the site. The site was only about a half mile from I-5, but could (theoretically) be reached more easily via back roads. Reaching the end of the driveable section of the dirt road at about 11:30 A.M., we got out to hike to the end of the road (about a mile and a half) and head down to the site from there.

We were optimistic at this point, thinking we could still make it back to Corvallis by 5 or 5:30 P.M. Unfortunately our map was pretty vague, and the scale such that distances and specific contours were difficult to gauge, especially without a compass or altimeter. We climbed down the slope over downed logs and through the dense rotting wood of the lush and speciose old growth. We traveled like this for close to two hours, writing down plant species as we went. Soon, we could hear the highway and decided that according to the map, we were at least past where the site was supposed to be, and most likely far past it. We rested for ten minutes or so, to give our knees a rest, then headed back, only at a higher altitude this time. We suspected we had dropped too far before heading across on the way out. We hiked up and back for close to an hour, when suddenly (as seems to be characteristic in finding tall bugbane) Matt looked down on a leaf that caught his eye, and sure enough, we were standing in a population of *C. elata*. Looking around, I could not believe that I had not noticed the characteristic sprays of white from their inflorescences before. We counted the reproductive plants, the juveniles, took down the associated plant species (e.g. *Pseudotsuga menziesii*, *Abies grandis*, *Acer macrophyllum* and *Rubus parviflorus*), and thought we might still be able to hurry back to Corvallis close to on time.

Hundreds of small downed trees along with a few large ones (maybe more than a meter in diameter) were determined to slow our progress. After several scrapes, falls, and a BIG tear in the seat of my shorts, we decided to head straight up the hill to the first road (it seemed easier at this point to navigate from the ridge top, or from a road we could find on the map). We were euphoric when we finally reached the road, practically running down it the two or so miles to the car. Finally, we made it back to Corvallis by 8 P.M. And we were, by then, able to reflect upon the day as a learning experience for botanists; remember to always have

with you: Hitchcock, hand lens, good maps, as compass, endurance, and a good sense of humor. My only regret was that I was unable to say good-bye to the rest of the crew, as they had already gone home for the weekend.

Thus my summer of botanizing, both for ODA/PCBP and for the Forest Service in Heppner, came to an end. Thanks to the internships available from the NPSO, to Tom Kaye and Bob Meinke of OSU, and to Melissa x 2, Steve and Angie, I was able to help find, study and protect four plants I might never have known existed. After botanizing this summer, the outdoors offers so much more than I ever would have thought to look for and appreciate before. Thank you, again.

Jill Elise Van Winkle
Whitman College

A Journey Through Time Chronicles of a Past and Present Invasion

The organizational meeting of the Pacific Northwest Exotic Plant Pest Council, PNW-EPPC, held in Pendleton, Oregon, on December 10-11, 1993, was really an eye opener for me. After growing what was probably Umatilla County's first plant of velvetleaf (*Abutilon theophrastii*) from seed that contaminated either a bag of commercial potting soil or from the nursery plant I planted in that soil (I guess I'll never know which), I was really looking forward to the meeting. I wasn't disappointed! A few days after the meeting, I traveled to Heppner, Oregon. Because of a recent rash of wintertime accidents on I-84, I decided to take the back roads. The combination of the EPPC meeting and the journey over the oh-so-familiar terrain caused me to think back over the changes in the green mantle of the land that I have witnessed since moving to Pendleton some 26 years ago.

I used to spot small bushes of purple ball sage (*Salvia dorrii*) which bloomed each May just southwest of Pilot Rock on the north side of Highway 395. Now that hillside is obscured by a thicket of teasel (*Dipsacus sylvestris*) and just beyond the teasel patch is a gigantic crop of Scotch thistle (*Onopordum acanthium*). After turning west from Highway 395, I came to the site where I had found a sensitive plant population some 18 years ago. Laurent's milkvetch (*Astragalus collinus laurentii*) still grows there but now it's losing ground

to Klamath weed or St. John's-wort or goat weed (whatever you want to call *Hypericum perforatum*). In that same area the roadcuts are starting to support sheets of field bindweed *Convolvulus arvensis*).



Teasel
Dipsacus sylvestris
Drawing by Karl Urban

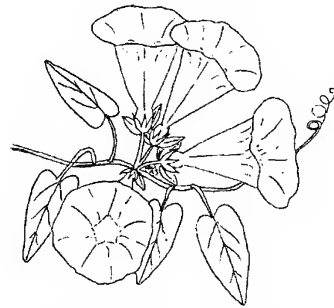
The sad message of the passing years was becoming crystal clear to me on this particular trip. The landscape had changed dramatically right under my own eyes. The gorgeous native wildflowers I used to enthusiastically share with my students at Blue Mountain Community College (I taught there for 23 years -- until 1991) were no longer abundant. Where they had once ushered in spring with a profusion of colors, now stood the tall, dried stalks of flannel mullein (*Verbascum thapsus*) and the rust-colored tufts of Klamath weed.

In the dryland canyon country between Pilot Rock and Heppner I remembered climbing through rattlesnake dens to get to the rocky slopes that supported vast golden fields of the first serrated-leaved balsamroot (*Balsamorhiza serrata*) I had ever seen. That was in 1969. How surprised I was to see those same rocky slopes now covered with the remains of diffuse knapweed (*Centaurea diffusa*) and Medusahead (*Taeniatherum caput-medusae*). I approached the bridge where I had first found black henbane (*Hyoscyamus niger*) in Umatilla County, some 22 years ago. I fully expected to find that the hillsides were covered with the strange skeletons of this poisonous plant. Instead I found that teasel had won out. Only a few dried henbane plants were present.

By the time I got to Heppner I was really depressed over the demise of native plants evidenced in this short trip. Although my memories of the beautiful wildflowers that used to occur along that route are indelible, those plants are no longer there. Now, aggressive, introduced plant

species (and some aggressive natives, too) have found very comfortable niches in recently-disturbed habitats. They appear to be so "happy" (i.e., well-adapted) that they are spreading all over the place.

I could not bear the thought of returning to Pendleton over that same route, so I reluctantly drove north from Heppner toward Interstate 84. Several hawks were hunting in the irrigated circles of corn near Echo. I stopped to watch them. As I stepped out of the car my memory again reminded me that here, some 24 years ago, grew the beautiful pink Umatilla milk-vetch (*Astragalus succumbens*). Now the sandy soil supports a matrix of Russian thistle or tumbleweed (formerly known as *Salsola kali tenuifolia* and soon to be correctly named either *Salsola tragus* or perhaps *Salsola pestifer*) plus the remains of yellow star thistle (*Centaurea solstitialis*), puncture vine or goat heads (*Tribulus terrestris*), and sandbur (*Cenchrus longispinus*).



Field bindweed or morning glory
Convolvulus arvensis
Drawing by Karl Urban

Everywhere, everywhere were reminders that we are changing the face of the land. The land, despite its apparent permanence and resiliency, is recording those changes by producing a tapestry of altered habitats filled with exotic vegetation.

The hawks continued their hunting antics as I climbed back into my car and headed home. As the afternoon fog settled into the Columbia basin, I crossed an irrigation canal now choked with false indigo (*Amorpha fruticosa*). I remember the time when there was a single tree of false indigo in Umatilla County.

All evening and all night I thought about the dramatic changes I had witnessed in a quarter of a century in the arid lands of northeastern Oregon.

The EPPC meeting had opened my eyes to reality and the next day was to be no different!

The next morning I opened the blinds and looked out at the winter-kissed plants in our yard and garden. Hoarfrost clung to the red osier dogwood (*Cornus sericea*) I had planted. The frost was particularly attractive on the almost-invisible, long stringy hairs of the soapwort (*Yucca filamentosa*) plants I had put into our home landscaping effort. The Kenilworth ivy (*Cymbalaria muralis*), although frozen in wads, still clung to the garden gate. The brown, dried stalks of St. John's-wort (*Hypericum calycinum*) threateningly encircled the small hornbeam (*Carpinus*) sapling I had purchased and transplanted three years ago. I noticed that the periwinkle (*Vinca minor*) was threatening to crowd out the peonies I had so carefully transplanted from my father's garden years ago. The silvery, woolly leaves of lamb's tongue (*Stachys lanata*) and red campion (*Lychnis coronaria*) poked through the English ivy (*Hedera helix*) we inherited with our purchase of the property in 1979. Beyond the garden boardwalk, I could see the leafless stems of the Siberian pea (*Caragana arborescens*) I had transplanted in 1982. I had chosen that species because of its drought resistance. In my early days in Pendleton I found a grove of Siberian pea growing at the old Pendleton Airbase. It was perfectly happy -- a veritable green oasis on an otherwise "cheat-grass brown" hillside, and it hadn't received any domestic irrigation water since World War II!

As I gazed out over my "creation," I felt an urgency to begin re-landscaping **immediately**. My greenest of green thumbs had turned many of those exotic plants into uncontrollable pests. I had planted them with good intention and cause -- immediate access to splendid materials for use in the botany classes and laboratories I used to teach. I realized that as a result of my own shortsightedness I had contributed to the problem of introduced, aggressive, plant species.

The EPPC meeting provided me with a rude awakening and a new perspective. As I pull the gray-green campion and *Nigella* plants from my vegetable garden each summer, a homespun definition of "aggressive" -- minus the profanity -- grows closer to exact wording. Perhaps the "knap-weeds" of tomorrow are lurking somewhere in my garden today!

Karl Urban
Forest Botanist
Umatilla National Forest

1994 Rare Plant Conference

The USFS, NPSO, Oregon Department of Agriculture and the BLM will be cosponsors of this event which is held every other year. This meeting is one at which decisions are made for listing Oregon's rare plant species. It will be held in Bend at the Central Oregon Community College on November 4 and 5, 1994. The conference will start at 1 P.M. on Friday and continue from 8 to 5 on Saturday. Mark your calendars now. A detailed agenda will follow in the NPSO Bulletin. Agency and non-agency people are welcome to attend, as are interested observers.

Stu Garrett

Leslie Gulch ACEC

There was a tremendous response from NPSO members on the draft plan to eliminate grazing from rare plant habitat in Leslie Gulch on the Owyhee River in far eastern Oregon. Our letters (over 50!) have definitely made a difference. Let us hope the BLM can stand its ground against strong local opinion.

Stu Garrett
Eastside Conservation, NPSO

The Oregon Watershed Improvement Coalition Sponsors a Workshop

This is a coalition of 11 conservation and resource industry-based groups, and they are getting together at the Cook County Fairgrounds in Prineville, Oregon, on May 13th and 14th, 1994. There will be panel discussions, small group workshops and other activities, all in the interest of working together at "Improving Our Ecosystems." A lunch and dinner will be included in the \$25 registration fee. Call NPSO member, Berta Youtie, at 503-962-3903, for more information, and/or a registration form. Registration at the door will be possible if space permits, but seating is limited, so register early.

Cal Brantley
1921 - 1994

The NPSO and Cal's family and friends have experienced a deep loss. As new arrivals to Oregon in 1984, Cal and his wife Dorothy jumped into outdoor and civic activities with enthusiasm. A regular on all NPSO field trips and projects, Cal's sense of humor and unending goodwill were always evident. He believed in folks working together to solve problems and joined forces with ranchers to cooperatively address rangeland issues. He was active in a variety of local and statewide activities including: The Malheur Field Station as chair of the Great Basin Society, The Camera Club, The Crater Lake Natural History Society, The Central Oregon Community College Board of Directors, and president of the State Association of Community Colleges. All this was after a doctoral degree in chemistry from the University of Illinois, a successful career at Union Carbide, and retirement as vice president of New England Nuclear in Boston. The intelligence and energy Cal brought to bear on all issues were welcome. We in the High Desert Chapter mourn his passing, but are thankful for the too-brief time we had with him.

Stu Garrett

Ancient Forest Adventures

This organization, founded four years ago by NPSO member, Mary Vogel, has moved to Portland, and is offering three and six day tours in conjunction with NPSO. NPSO will receive 10% of the registration fee, for anyone hearing about the tours by reading the Bulletin. The following tours are offered:

Southern Oregon Cascades - May 29-June 3
Central Oregon Cascades - June 12 -17
Central Oregon Coast - July 3 - 8
North Oregon Cascades - Aug. 21-23 and 24-26
North Oregon Coast (women) Oct. 9 - 14

Contact: Mary Vogel, Ancient Forest Adventures,
800 NW 6th Ave., Ste. 201, Portland, OR 97209
503-248-0492

Desert Conference XVI

"Lessons from Coyote"

This conference, sponsored by the Portland Audubon Society and other conservation groups, will be held at the Malheur Field Station, near Bend, Oregon, from Thursday evening, April 28 to Sunday, May 1, at noon. Registration will take place on Thursday, with additional registration on Friday. Friday will also have field trips and slide programs. Saturday and Sunday will be devoted to the "Status of and Threats to the High Desert." There will be speakers, panel discussions, workshops and evening socializing and entertainment.

The number of attendees is limited, so early registration is suggested. For information, or to request a brochure/registration form, call the Portland Audubon Society, 503-292-6855. Written inquiries and/or completed registration forms go to:

Desert Conference XVI
c/o Portland Audubon Society
5151 NW Cornell Road
Portland, OR 97210

Conference Registration Fee	\$30.00
Dormitory at Malheur	\$13.00 per night
Meals: Breakfast	\$6.75 per day
Lunch	\$6.50 per day
Dinner	\$8.00 per day

NPSO 1994 Annual Meeting May 13 - 15, Ashland, Oregon

Hosted by the Siskiyou Chapter

The 1994 annual meeting will begin on Friday May 13, with a seminar by our dinner speaker (see below) followed by a reception. On Saturday there will be field trips and the annual banquet. The business meeting will be held on Sunday morning. For information on lodging and the theater see the March Bulletin. Register in advance.

SEMINAR: Friday, 4 P.M. Dr. Ertter will speak on "What is snow-wreath doing in California and why wasn't it discovered earlier?" Auditorium of the Science Building, SOSC.

RECEPTION: Friday, 5 P.M. Redford Lounge, SOSC Student Union.

BANQUET: Saturday, 6:30 P.M. Trinity Episcopal Church, 44 N 2nd St. The banquet speaker will be Dr. Barbara Ertter, Associate Curator, U. of Cal. Herbarium, U.C. Berkeley. Topic: The New Face of Western Botany.

BUSINESS MEETING/breakfast: Sunday, 8 A.M. Science Building, with rolls, juice, etc.

Saturday Field Trips

All trips to take place on Saturday, May 14. We will carpool. Meet at 9 A.M. for all trips, except Greensprings which will meet at noon, in the parking lot at the corner of Mountain and Henry Sts. across from SOSC music building. Bring lunch and water, and prepare for varying weather. Choose from the following list, indicating first second and third choices. Sign up early.

NATIVE GRASS: Wayne Rolle will lead a one mile moderate hike near Applegate Lake to a diverse native grass stand. Then a stop at the J. Herbert Stone Nursery to see and discuss USFS native grass propagation efforts.

ILLINOIS VALLEY: Anita Seda will lead to a *Darlingtonia californica* fen at \$8 Mt. Many Illinois Valley endemics will be seen, including *Carex livida*, *Hastingsia bracteosa*, and *Cypripedium californicum*.

GREENSPRINGS: Richard Brock will lead a half day trip to vernal pool habitats in the Lincoln - Pinhurst area, with stops to see *Limnanthes floccosa*, *Mimulus pygmaeus*, *Isopyrum stipitatum*.

NATURE CONSERVANCY PRESERVES: Darren Borgias leads to several southern Oregon preserves to botanize and discuss issues such as: restoration, rare plant monitoring and weed control. Possible moderate walking.

APPLEGATE VALLEY: Barbara Mumblo leads, to possibly see *Mimulus kelloggii*, *Sedum oblan- ceolatum*, *Rhamnus crocea*. Moderate walking.

Annual Meeting Registration

Name (s).....

Address & Phone.....

Registration fee enclosed (\$5 per person).....persons

Banquet fee enclosed (\$12.50 per person).....persons

Field trip choice

First.....

Second.....

Third.....

STATE OFFICERS

DIRECTORS (to 6/95) Jenny Dimling, Veva Stansell, Nancy Wogen
DIRECTORS (to 6/94) Jerry Igo, Margie Willis, Peter Zika
PRESIDENT Lisa Croft. 699 W 2nd, Prineville 97754; 447-5270
IMMEDIATE PAST PRESIDENT Stephanie Schulz. 652 W 10th St #1, Eugene 97402; 485-1868
VICE PRESIDENT Rhoda Love. 393 Ful Vue Dr, Eugene 97405-2706; 345-6241
SECRETARY Bruce Rittenhouse. 1170 Michigan, Coos Bay 97420; w:756-0100; h:888-9328
TREASURER Kari Yanskey. PO Box 64, Ukiah 97880; 427-3063

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker. Rt 1, Box 263, Adams 97810-9704; 566-3381
CORVALLIS Keli C. Kuykendall. 4550 SW Nash Ave., Corvallis 97333; 758-8409
EMERALD (Eugene) Bruce Newhouse. PO Box 902, Eugene 97440; 343-2364
HIGH DESERT (Bend) Cindi O'Neil. 22100 Sweetgrass Dr, Bend 97701; 389-3085
MID-COLUMBIA Keith Chamberlain. Box 271, Mosier 97040; 478-3314
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PORTLAND Laura & Steve Gasaway. 39586 SE Trubel Rd, Sandy 97055-9625; 668-5076
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Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____

State _____ ZIP+4 _____ - _____

Phone _____

Chapter (if known) _____

Is this a change of address?

If so, please write your old address here:

Please make checks for dues and contributions payable to:
NATIVE PLANT SOCIETY OF OREGON

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Leighton Ho Memorial Field Botany Award Fund. \$ _____
Rare and Endangered Plant Fund. \$ _____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Xavier St., Portland OR 97210-2412.

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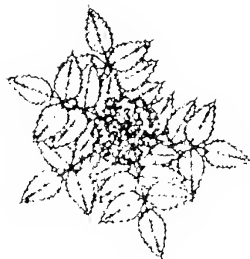
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NATIVE PLANT SOCIETY OF OREGON

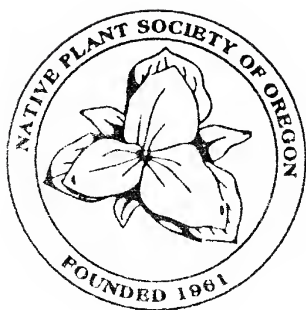
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or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 27

NUMBER 5

MAY 1994

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State News

May 13-15 **Annual Meeting:** In Ashland. See the March and/or the April Bulletin for details. Map of Ashland inserted in this issue.

Chapter News

Blue Mountain

- May 2, Mon. **Meeting:** 7 P.M. Small Business Development Center, 37 SE Dorian, Pendleton. James Mciver, La Grande entomologist, will speak on arthropod communities on a native plant.
- May 15, Sun. **Work Day:** We will car pool to Lindsay Prairie to pull weeds, clean out barbed wire, etc. at the Nature Conservancy site. Bring gloves, boots, etc. and lunch. Meet at the NE corner of the Safeway parking lot, Pendleton, 8 A.M. Call Bruce Barnes, 276-5547, for information.
- May 21, Sat. **Field Trip:** Joint trip with the Bird Club, up Lick Creek trail from Umatilla Forks to the Tollgate Chalet. To coordinate people and vehicles at both ends, RSVP to Jerry Baker, 566-3381.
- May 22, Sun. **A "Fun" Work Day:** Help staff information booth at the Deadman's Pass rest stop, for "Wildflowers for 18-Wheelers," sponsored by the USFS program, "Celebrating Wildflowers." Eastbound: 10-11:30 A.M. Westbound: 1-2:30 P.M.
- June 4, Sat. **Field Trip:** Car pool to Bull Prairie Reservoir, south of Heppner. Meet at NE corner of the Safeway parking lot, Pendleton, 8 A.M. Leader Karl Urban, 276-8371.
- June 11, Sat. **Field Trip:** Caravan from Ukiah to Heppner with stops along the way. Meet at the Ukiah USFS office, 10 A.M. Leader, Kari Yanskey, USFS, Ukiah.

Corvallis

May 7, Sat. **Field Trip:** Laurel Devaney of Finley National Wildlife Refuge will lead a trip to the

wet prairie in the Willamette Floodplain Research Natural Area at the refuge. We'll brainstorm with her about a proposed interpretive walkway, and attempt to add to the refuge plant list. Meet at 9 A.M. to car pool from the parking lot across from the campus Beanery (26th & Monroe) or 9:30 at the refuge where the north entrance road turns west and splits (about 2 mi. from Hwy 99W). Call Dick Brainerd, 758-4500, for more information.

May 9, Mon. **Meeting:** 7:30 P.M. Room 2087, Cordley Hall, OSU campus. Wilbur Bluhm will talk on "Native Rhododendrons." Call Keli Kuykendall, 758-8409, for information.

Emerald

May 15, Sun. **Show:** Spring wildflower show at Mt. Pisgah Arboretum, 10 A.M. to 4 P.M., co-sponsored by the Emerald Chapter

May 23, Mon. **Meeting:** 7 P.M. Morse Ranch Park. Directions from downtown Eugene. Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E). Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot. Sarah Greene will speak on "Botanizing Research Natural Areas in Oregon."

June 11, Sat. **Field Trip:** Hike up Horsepasture Mt., in the McKenzie Ranger District, with Dave Predeek and Cheryl Friesen. Meet at South Eugene H.S., 8 A.M. Call Jenny Dimling, 465-6321, for more information.

High Desert

May 21, Sat. **Field Trip:** Crooked River grasslands. This day trip will be to an area between Bend and Madras, to see efforts to restore damaged grassland and riparian ecosystems. Call Stu Garrett, 389-6981 evenings, for information.

May 24, Tues. **Meeting:** 7:30 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Annual plant identification seminar, including slide show and collected live specimens.

May 24, Tues. **Workshop:** 3-8:30 P.M. "Celebrating the Wildflowers of Central Oregon." Learn to identify the most common wildflowers of central Oregon. Hosted by the High Desert Chapter. Central Oregon Environmental Center, 16 NW Kansas, Bend.

June 18-19
Sat.-Sun. **Field Trip:** Fort Rock Valley/Christmas Valley. Overnight trip to see a variety of central Oregon landmarks -- Fort Rock, Fossil Lake and the sand dunes, the Lost Forest, the Black Hills RNA and the states largest junipers. We will dry camp in an undeveloped spot in the desert. Call Stu Garrett, 389-6981 evenings, for information.

July 9, Sat. **Field Trip:** Lookout Mountain. This spectacular wildflower hike to a protected area of the Ochoco National Forest is led by Richard Helliwell, Big Summit District botanist. Moderately difficult 5 mile hike. Meet at Ochoco Ranger Station, 9:30 A.M. Call Richard, 447-9645 days, 447-2249 evenings, for details.

Aug. 6, Sat. **Field Trip:** Broken Top volcano. Annual trip to view spectacular glaciated scenery and alpine wildflowers west of Bend. Moderate to strenuous 5 mi. round trip, with 1500 foot elevation gain. Mostly off-trail hiking through Three Sisters Wilderness, so number limited to 12. **Pre-registration required!** Call Stu Garrett, 389-6981, evenings, for sign-up.

Aug. 20, Sat. **Field Trip:** Three Creeks lake and meadow. Easy hike, led by USFS botanist, Cindi

O'Neil, through superb sub-alpine areas to see the unusual Newberry's gentian and other high-elevation flowers. Call Cindi, 389-3085, evenings, or 383-5564, days.

Mid-Columbia

- May 4, Wed. **Meeting:** 7:30 P.M. Mosier School. Stu Garrett of the High Desert Chapter will speak on his favorite wildflower places in central Oregon. Excellent slides and information.
- June 1, Wed. **Meeting:** 7:30 P.M. Mosier School. A full evening to catch up on many projects and activities. Bring slides, flower prints, or places to find them. We'll share stories.
- June 25-26 **Show:** Wildflower show, at Crates Point Living History Park in the Dalles.
- Officers :** New officers elected were: Michael Igo, president; Allen Bell, vice president; Jeanne Hart, secretary-treasurer; Barbara Robinson, program chair.

North Coast

- May 21, Sat. **Field Trip:** Meet at 10 A.M., Saddle Mt. parking lot, for a hike to the summit. for more information on car pooling, call Jim Winslow, 842-2246.
- May 31, Tues. **Meeting:** 7 P.M. Tillamook YMCA, 610 Stillwell Ave. Program to be announced. Call Jaylen Jones, 842-7710, for information. For field trip information call Jim Winslow, 842-2246.

Portland

- May 8, Sun. **Field Trip:** Barbara Robinson will lead to a newly acquired area above Memaloose in the Columbia Gorge. Meet at Lewis & Clark State Park at 8:30 A.M.
- May 10, Tues. **Meeting:** 7 P.M. First United Methodist Church, 1838 SW Jefferson St., Portland. Bowen Blair Jr., Trust for Public Land, will give an illustrated talk, "Preserving unique open space in Oregon -- especially the Columbia Gorge."
- May 22, Sun. **Field Trip:** Julie Thiel will show us *Erythronium elegans* and other interesting plants on Mt. Hebo. Meet at the Tualatin K-Mart parking lot, I-5 exit 289, 8:30 A.M.
- May 28, Sat. **Field Trip:** Lance Holmberg, botanist at Bear Springs Ranger Station, will lead to Hunter Prairie. Meet at Ashley's Restaurant, Boring exit, Hwy. 26, at 8:30 A.M.
- June 2-5, Th.-Sun. **Field Trip:** Special 4 day trip to Hart Mountain National Wildlife Refuge, led by Lucile Housely and other botanists, to discover and photograph wildflowers in that unique geological region of southern Oregon. Meals, transportation and accommodations included for \$395, with 9-person maximum, 6-person minimum. A \$50 tax deductible donation will go to NPSO. Call Annmarie Housley, 282-0189, for information.

Siskiyou

- Meeting:** Due to annual state meeting in Ashland, there is no May chapter meeting.
- May 28, Sat. **Field Trip:** To "Celebrate Wildflowers" Barb Mumblo will lead an all day hike to Baldy Peak/Mule Mt., in the Applegate Valley. Meet at Star Ranger Station (7 mi. south of Ruch) at 9 A.M. In this low elevation, diverse area we may see *Mimulus*

kelloggii and *Camissonia graciliflora*, small, annual species more common in California.

South Coast

- May 21, Sat. **Field Trip:** Cape Sebastian. Enjoy a nice walk to view coastal headland wildflowers. Meet at Gold Beach Ranger District, 10 A.M. Call Bruce Rittenhouse, 888-9328, for more information.
- June 4-5, Sat-Sun **Field Trip:** Vulcan Lake, Kalmiopsis Wilderness. Pre-registration required. Enjoy day hikes into Kalmiopsis Wilderness to see many rare plant species including *Kalmiopsis leachiana*. Limit of 12, because of wilderness restriction. May have two groups if interest is high. For information and registration call Bruce Rittenhouse, 888-9328.

Umpqua Valley

- May 12, Thurs. **Meeting:** 7 P.M. Room 310, Douglas County Courthouse. Bring native plants for study and identification. Call Ted Schattenkerk, 679-6953, for information.
- May 28, Sat. **Field Trip:** To Squaw Flats. Meet at BLM parking lot, 777 NW Garden Valley Blvd., 7:45 A.M., for car pooling, with 8 A.M. departure. Call Richard Sommer, 673-3709, for information.
- June 4, Sat. **Field Trip:** Down the Coos Bay Wagon Rd., and up Cherry Creek, to see the Cherry Creek "big fir," enjoying roadside flowers along the way. Picnic at Big Tree Park. Meet at BLM parking lot, as above. Call Jack Stubbs, 673-8046, for information.

Willamette Valley

- May 1, Sun. **Field Trip:** Here's your chance to botanize in Seneca Fouts Memorial Park, just west of Hood River, one of the Columbia Gorge's least-known state parks. Margie Willis will introduce us to this area of wildflowers and early Oregon history. Easy, level walking. From Salem, meet at North K-Mart parking lot, 7:45 A.M., from Portland, at Lewis & Clark State Park parking lot, 9:15 A.M. Call Wilbur Bluhm, 393-2934, for more information.
- May 14, Sat. **Field Trip:** Wildflowers at Finley Wildlife Refuge, led by Barbara and Glenn Halliday. Easy hike. Meet at South Salem K-Mart parking lot, 8 A.M. For more information, call the Hallidays, 371-1025.
- May 16, Mon. **Meeting:** 6:30 P.M. Meet in Meryl's parking lot, on the west side of Lancaster, just north of Sunnyview, for car pooling to Noble Bashor's garden, 11296 Sunnyview, east of Piatum. Call 399-9680 for more information.
- May 18-20, Wed.-Fri. **Field Trip:** Wildflowers, other local interests of Leslie Gulch and Succor Creek, Malheur County, Oregon. Meet at 9:30 A.M., Succor Creek State Recreation Area camp ground, about 40 mi. south of Nyssa, via hwys. 20 and 201. May 20-21, further botanizing in area. Accommodations available at Ontario or Vale. Call George Schoppert, 859-2613, for more information.
- May 28, Sat. **Field Trip:** Horse Rock Ridge, a pristine wildflower area in low Cascades, led by Clint Urey. Easy to moderate hike. Meet at South Salem K-Mart, 8 A.M. From N. or S. via I-5, take Stayton-North Santiam-Mission St. exit, 253, then 1/2 mi. W. toward Salem to K-Mart. Call Clint Urey, 393-0886, or Wilbur Bluhm, 393-2934, for information.

Wm. Cusick

Meeting: No May meeting. Call Bob Ottersberg, 963-6043, for more information.

- May 14, Sat. **Field Trip:** Jean Findley will lead a walk and work party to the Leslie Gulch Area of Critical Environmental Concern. Five listed plant species and unique geology occur at this site. Bring gloves and digging tools for a little weed control. Camping possible. Meet at Marsing Park, west side Snake River, 9:30 A.M., or Leslie Overlook, 10:30 A.M. Call Jean, 473-6233, for more information.
- May 21, Sat. **Field Trip:** Hike to view spring, desert wildflowers. Meet at 10 A.M. at the front door of the Oregon Trail Interpretive Center, 5 miles east of Baker City. Hike sponsored by BLM and Wallowa-Whitman National Forest. Paula Brooks will lead. Call 523-7564 for more information.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance and terrain to be expected. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public.

All kinds of contributions welcome. **Copy due by the 10th of the month.**

CREDITS: Identify author and affiliation. If not original, cite source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints are useable. Some McIntosh graphics can be used. Contact editor for our current needs, or send illustrations with article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual" where appropriate.

FORMAT: Submissions can be in any form, but at present editor prefers hard copy. Use of a modem is not possible at this time. Editor follows "The Associated Press Stylebook" For further details consult editor.

ORIGINALS: Submissions are not returned, unless requested.

NPSO Gorge Poster Wins Award



FIFTH ANNUAL DRAKE AWARDS. THE WINNERS.

The first of NPSO's "Rare Plants of Oregon" poster series has won an award. In the annual Drake Awards for the Ad Club of Central Oregon, "Rare Wildflowers of the Columbia Gorge" was given an award of merit for the category of 4-color posters. There were many strong candidates in this category, and NPSO thanks graphic artist Susan Higdon for her help in design.

The Society can be proud that it is accomplishing its educational mission with such excellence. Order your copy of this award-winning poster today!

Stu Garrett
Poster Chair

**We Welcome New Members
Joining Between January 1st
and February 19th, 1994**

At Large

Braatne, Jeffrey H.
Hoffmann, Siegfried W.

Blue Mountain

Cahill, Kelly
Wilkins, Dale E.

Corvallis

Danler, Signe
Drapek, Raymond
Eversole, Lisa Loewen
Fiorella, Maria
Kolar, Sue
Oregon Coast Aquarium
Pearson, Brian
Russell, Barbara E.
Sundberg, Scott
Watrud, Lydia S.
Willowmoon, Margaret A.

Emerald

Cowin, Tom
Dearborn, Hilary
Mount Pisgah Arboretum
O'Kelley, Cathy

High Desert

Fava, Linda
Wuehler, H. Dee

Mid-Columbia

Lewis, Suzi
Wallace, Nancy

Portland

Beaston, Bill R.
Crowe, Ray
Friends of Forest Park
Hillyer, Anne
Kee, Jeffrey A.
Ledbetter, Connie & Cahall, Darleen
Newton, Mark & Sandra

Siskiyou

Beigel, Jennifer
Hamilton, Elaine
Hayes, Midge
Lynn's Landscapes & Irrigation

Umpqua Valley

Robertson, Jean

Willamette Valley

Howard, Alma L.

NPSO Items For Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (503-389-6981). Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu, for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett (see above). \$1 each; minimum order is five.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one drawn by Valerie Sloane. They are printed on pastel parchment-style paper with matching envelopes. Notecards are sold through NPSO chapters, and cost \$4 per packet. Contact Lisa Croft, 699 W 2nd, Prineville, OR 97754 (503-447-5270).

NPSO T-Shirts are available in various colors and designs, and are sold through NPSO chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 652 W 10th St., #1, Eugene, OR 97402 (503-485-1868). \$5 each plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory lists names, addresses and telephone numbers of members, as of April, 1993. Available from Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412. \$2 each.

For Sale

Do you need four volumes of "Intermountain Flora"? I have little use for them in Coos Bay. I have Volume I (Introduction, Vascular cryptogams, Gymnosperms); Volume IIIB (The Fabales); Volume IV (Subclass asteridae -- except asteraceae) and Volume VI (Monocots). All four volumes are in excellent condition, except for being dusty, and are for sale at \$45 each. Call Bruce Rittenhouse, 756-0100 (w), 888-9328 (h).

Future Western Lily Management Discussed

One of the rarest plants in Oregon is the western lily (*Lilium occidentale*). This species occurs along the southern Oregon coast, approximately from Coos Bay south to Humboldt Bay, California. Currently there are 28 widely scattered populations occurring in Oregon coastal bogs, and ocean bluffs on poorly drained soils, usually underlain by an iron pan or poorly permeable clay layer. Because of its rarity (an estimated 400 flowering plants in 1989) and threats (loss of habitat from development and succession) this species has been proposed for listing as endangered under the Endangered Species Act. It is for these reasons that a group of botanists from Oregon and California who are knowledgeable about the species, land owners (Oregon State Parks, BLM) and regulatory agencies (U.S. Fish and Wildlife Service, Oregon Department of Agriculture) met at the Berry Botanic Garden (BBG) to discuss the biology, the current status, develop an exchange of information and look at potential future management strategies. The meeting was organized and hosted by Ed Guerrant of BBG, and funded by the Center for Plant Conservation.

Stewart Schultz, who wrote the Status Report for western lily, presented information on the biology of the species and the rangewide status as of 1989. Dave Imper and Dan Salzer provided information on the status and monitoring work done on western lily in California and Oregon, respectively. Much more effort in monitoring and habitat manipulation has been done in California. Margie Willis, Oregon State Parks, described the situation of western lily on state park land.

Future management possibilities include land acquisition, habitat manipulation (removal of encroaching shrubs), population enhancement, re-introductions, and increasing inventories to locate new populations (some new populations may be on private land, or in areas inaccessible because of brush) and developing an information source for the species (which BBG volunteered to do). The steps the group recommended include: setting up a group of volunteers to help with and activities (monitoring, habitat manipulation), developing a methodology for monitoring the species rangewide, and increasing the awareness of land-owners. Management objectives will be developed for each location.

Dan Salzer and Dave Imper will develop a
NPSO Bulletin

rangewide methodology for monitoring populations using permanent photo points and simple sampling to determine the trends in populations and habitat which will provide better information to make management decisions for the western lily.

The volunteer effort is an excellent opportunity for the NPSO (and specifically the new South Coast Chapter) to help with the protection, monitoring and restoration of this species. If you are interested in helping, please call Bruce Rittenhouse, 756-0100 (work), 888-9328 (home).

Bruce Rittenhouse
South Coast Chapter

Wanted

Eastern Oregon amateur botanists who are familiar with locations where *Trifolium* (clover) seeds may be collected.

For details contact: N.L. Taylor, Department of Agronomy, N222 Ag Science Center North, University of Kentucky, Lexington, KY 40546. Telephone (606) 257-5785. FAX (606) 323-1928. E-mail AGRO79@UKCC.UKY.EDU.

Wallowa-Whitman Sensitive Plant Program

The questions and answers here were written in response to a request from a local reporter. He wanted to know if rare plants are going to be the "next spotted owl." I tried to explain our rare plant program and how the plant list is developed for the Forest Service in Region Six. Hopefully this document provides a good overview of our entire botany program and demonstrates that protecting biodiversity is not an obstacle to good forest and range stewardship.

1. What plants are endangered, threatened, sensitive? Is the decision subjective, or are there criteria the Forest Service must follow?

The Forest Service Sensitive plant list includes both federal and state listings of "Threatened," "Endangered" and "Candidate" species, as well as other species that may be added to the lists if their habitats are not properly managed. Any plant listed by either the federal or state of Oregon govern-

ment, or that is a candidate for those lists, is automatically included on the regional forester's list. Other species that are rare or are potentially threatened are also included.

In the Wallowa-Whitman National Forest, 72 species of plants are currently listed as Sensitive. Of these, 55 are documented in the Forest, and 17 are suspected to occur there, but have not been found.

The definitions of Endangered and Threatened are from the Endangered Species Act. For a plant to be listed under this act, there is a formal process that the U.S. Fish and Wildlife Service must follow. The decision to list a species is strictly based on scientific merit. Candidates are species that are being considered for listing in either category.

Oregon also has its own endangered species act, with a formal process. It considers input from Oregon botanists and the public.

The Wallowa-Whitman National Forest is the only national forest in Oregon with a federally listed plant species, MacFarlane's four o'clock (*Mirabilis macfarlanei*). And, 21 species are federal candidates. Three species are currently listed as Endangered or Threatened by the state, and there are 19 candidates, known or suspected in this Forest.

The Sensitive plant list is updated every couple of years, and is sanctioned by the Regional Forester in Portland. Recommendations of the Washington and Oregon Natural Heritage program publications are generally followed. This means that all the plants that are listed by those programs as T/E throughout their ranges (List 1); or as T/E in that state, but more abundant elsewhere (List 2) are currently on the Regional Forester's Sensitive species list. The Forest Service is currently reviewing the process for developing this list. If you would like to provide input, please contact the Regional Botanist, Dean Longrie, P.O. Box 3623, Portland, OR 97208, or telephone 503-326-4091.

Because the Wallowa-Whitman administers land in Idaho (part of the Hell's Canyon National Recreation Area) the sensitive species list includes plants in Region One (northern Idaho) and Four (southern Idaho) as well as Region Six (Oregon and Washington). This complicates and increases the size of the list. Because of this, and northeastern Oregon's botanical complexity, the list is the third largest in Region Six, only Siskiyou and Wenatchee having more species.

Reasons for rarity generally fall into one of three categories.:

GLOBAL RARITY (ENDEMIC SPECIES) Some rare plants may only occur in a few sites in the world. These are often the species federally or state listed as Threatened or Endangered. MacFarlane's four o'clock is an example. It is found at the bottom of the Snake and Salmon River canyons -- and nowhere else. It is believed to have originally grown throughout the area. But as climate cooled, it is now able to survive in only the hottest parts of the lower canyons. Currently listed as federally Endangered, it is proposed for down-listing to Threatened. One reason is the the Forest Service is actively managing the habitat, to enhance conditions for the species.

Another species in this category is Greenman's lomatium (*Lomatium greenmanii*). This small plant is only found on Mt. Howard, and one other remote mountain in the Wallowas. It is extremely rare, and is found right on the top of Mt. Howard where hundreds of people a day visit in summer. The habitat for this plant is being cooperatively managed by the Wallowa-Whitman National Forest and the Wallowa Lake tramway. The tramway has provided financial assistance and labor to improve the trail system and erect signs explaining the importance of people staying on the trail. With this cooperation, the plant is being protected and people are still able to visit this wonderful site.

Several other species of plants are found in northeastern Oregon and nowhere else in the world. The Wallowa Mountains and the Snake River are famous in the botanical community for the unique plants that occur there.

EDGE OF RANGE OR DISJUNCT SPECIES: Some sensitive plant species are at the edge of their ranges, or are found many miles (often hundreds) from the majority of the populations. They may actually be fairly common in other parts of the country or the world. Populations of these species have adapted to living at the limits of their physical and biological conditions, as compared to their main population areas. These populations therefore represent an important component of the genetic bank for the species. Many rare plants of this type that occur in Wallowa-Whitman are normally found in the arctic or Rocky Mountains.

One plant that is normally very common in the Rocky Mountains, and very rare in Oregon, is the many-flowered phlox (*Phlox multiflora*). This pretty, white-flowered phlox has been found at

one site in the La Grande district, and one place in Union County. No one knows exactly why, but this species, normally occurring hundreds of miles away, has been able to survive and reproduce in the Blue Mountains.

Another example of a plant outside its normal range is the small northern bog orchid (*Habenaria obtusata* or *Platanthera obtusata*). This tiny orchid is found in two river drainages of the Wallowas, and nowhere else in Oregon. It is, however, more common in Alaska, Canada and northern Europe, the climate in the Wallowas being similar to those more northerly areas. So, the plant can survive much farther south than normal.

GENERALLY RARE SPECIES (nice scientific term, eh?): Some species are uncommon, but relatively widespread. These plants may be found over a large geographic area, but with few individuals in each population, and with few populations even though there is suitable habitat.

An example is the clustered lady slipper *Cypripedium fasciculatum*). This small orchid has not been found in the Wallowa-Whitman, but there is a good chance it may occur here. It grows in coniferous forests in several western states, but is never found in abundance and only occurs in widely scattered populations. Another example is the long-bearded sego lily (*Calochortus longebarbatus* var. *longebarbatus*). It is found in moist meadows in the La Grande district, but not anywhere else in the Wallowa-Whitman National Forest. It also occurs in widely scattered populations from south central Washington to northern California.

2. What is the Forest Service doing to protect these plants? Are there any threats to these plants?

The Forest Service policy is to maintain the viability of all plants and animals in National Forests. To accomplish this, biologists and botanists conduct the Biological Evaluation process for all projects. For plants it includes four steps. Step one assesses whether there may be sensitive plants in the area, and if the project might have a negative impact on them. Step two looks for rare plants. This must be done at the right time of year. If a rare plant is found, step three is a risk assessment. If not enough information is available, step four is begun, involving literature searches, contacting other botanists, and learning as much as possible about the plant and its needs.

Potential threats include roadbuilding, cutting down trees important to the habitat, recreational

use and grazing by wild and domestic animals.

3. Has legal action had any impact on these plants? Could any of them stop timber sales?

The Regional Forester's Sensitive species list is an internal regulatory mechanism. It has been developed without the use of lawsuits and the courts. Before the Wallowa-Whitman had any botanists there were some timber sales that were successfully appealed because the Biological Evaluation process was not followed. Now there are professional botanists in all the districts, and the Biological Evaluation process is followed for all projects, so the potential for appeals is very small.

Sensitive plants are not likely to entirely stop timber sales or other actions. Modifications sometimes occur, but are usually minor. For example, a road or timber sale unit boundary may be adjusted, but most rare plants grow in small, isolated patches so it is usually easy to work around them. Another reason that there is rarely conflict between rare plants and timber sales is that rare plants usually grow in very specific, uncommon habitats, often occurring on cliffs, open scabby areas, or along riparian corridors. These microhabitats are generally avoided or naturally protected, even if there are no rare plants.

4. What is the botanist's role in these matters? What does a botanist do for the Forest Service? What is a botanist's background in botany?

The Wallowa-Whitman National Forest has a botanist in each district. This person is in charge of the Sensitive plant program, and other parts of the botany program. A Forest Botanist, located at the Supervisor's office, oversees the entire program. Botanists not only look for rare plants, but also set up and read monitoring plots to make sure populations are stable or increasing. They are also involved in noxious weed management, stream and rangeland restoration, the watershed analysis program and other activities. Each botanist has a bachelor's degree in botany, or related field. They are required to have 36 credit hours of botany, and attend Forest Service training sessions related to sensitive plants and other botany programs.

Paula Brooks
William Cusick Chapter
Wallowa-Whitman Forest Botanist

Book Review

Flora of North America. Volume 2. Pteridophytes and Gymnosperms, by FNA Editorial Committee. Oxford University Press, New York, 1993, \$75. (See 1/94 Bulletin for a review of volume one.)

Botanists across the continent now have easy access to the most recent taxonomic treatments of conifers, ferns and their allies. All native and naturalized species are covered from Greenland to the Aleutian Islands, south to the Mexican border. The 475 pages of this volume cover a vast amount of information. There are identification keys to the families, genera and species. Each species has a range map, a description, global range description, one or more literature references and a discussion of unusual or distinctive features, written by an expert on the genus. Endemism, weediness, economic use, rarity (on a global scale) and toxicity are touched on. Varieties and subspecies get full attention, with their own descriptions, identification keys and maps.

Professional systematists will be grateful for the diagrams depicting the evolutionary relationships in many of the fern groups. I like the honest mention of taxonomic problems. All readers will find the synonymy useful, especially in the ferns, where the Latin names seem to have a short half-life. Were you unhappy when the new California flora put Port Orford cedar in the genus *Cupressus*? Bingo, FNA has it back in *Chamaecyparis*. (Isn't it nice to have a choice?)

This is a book filled with written descriptions of shapes. These are enhanced with sharp illustrations (by uncredited artists) and useful magnified views. All genera and about 1/3 of the species are drawn. I wish the editors had included more illustrations and left out the abundant blank spaces. Even with all the extra room, reference to the page numbers of the illustrations is found only in the index, not in the text.

One of the nice features of this book is the checklist style statement of range, nicely supplementing the crisp maps and clarifying the distributions where the maps are hardest to read, like in the small eastern states. Every encyclopedic book such as a flora has typos and errors. Oregon users will notice a spectacular goof, where our endemic moonwort, *Botrychium pumicola*, is mapped in southwestern Greenland. But the text properly credits it to Oregon. More difficult to excuse are some omissions. Common clubmoss, *Lycopodium*

clavatum, and *Ophioglossum* are shown throughout Oregon EXCEPT on the coast. Fir clubmoss, *Huperzia occidentalis*, is shown in the Coast Range instead of the Cascades. Bog clubmoss, *Lycopodiella inundata*, isn't shown in Oregon at all, although it is known from six counties. Blame for this can probably be shared by the authors and regional editors, as well as by Oregon botanists. We must meet this challenge to improve our documentation and our communication with specialists in other states. There are 12 more volumes of FNA due in the next 15 years.

All these complaints are insignificant, for this is a first class text with new information for everyone. For example, I learned that the most frequently studied fern genus in the world (*Azolla*), with tremendous economic importance (N-fixing in rice paddies), has virtually unidentifiable species without an SEM and sori. This book will tell you why, yet show you how to identify Oregon species with a good 40X scope and leaves.

If your tastes includes botany, this book makes delicious reading. *Bon appetit*.

Peter Zika
Corvallis Chapter

Checklist of Oregon Flora

A reliable source has reported that a checklist of Oregon flora is in the offing. The information, it is said, will be in a data-base that can, of course, be constantly updated. NPSO members Kenton Chambers, Aaron Liston, Karl Urban and Peter Zika will be involved, along with others. As we learn more details they will be reported, so watch this space for some exciting news!

Oregon Artist Features Native Plants

Mary Moffat, longtime NPSO member, will be showing her paintings of native plants at the Community Center for the Performing Arts, 8th and Lincoln in Eugene, from May 3rd through the 31st. The gallery is open from 3 to 6 P.M., Tuesday through Friday.

Hunter Creek Bog Comments Needed

The BLM, Coos Bay District, is beginning to prepare an Environmental Assessment for the future management of Hunter Creek Bog and North Fork Hunter Creek proposed areas of Critical Environmental Concern. These areas consist of approximately 1800 acres southeast of Gold Beach.

Hunter Creek Bog is the largest, most diverse serpentine bog in the coastal zone of the Siskiyou Mountains. North Fork Hunter Creek consists of rocky prairies, oak-grass savannas, serpentine outcrops and boggy seeps. Many sensitive plant species, including *Allium bolanderi*, *Arctostaphylos hispidula*, *Cypripedium californicum*, *Darlingtonia californica*, *Gentiana setigera*, *Hieracium bolanderi*, *Lathyrus delnorticus*, *Poa piperi* and *Trillium angustipetalum* have been documented in the area. Extensive stands of uninfected Port Orford cedar also occur here. North Fork Hunter Creek contains one of the finest examples of native hardwood riparian vegetation in southwest Oregon and is important habitat for chinook, steelhead and sea-run cutthroat trout. Many unique and rare wildlife species occur in the area, including ringtail cats, Siskiyou Mountain salamanders, Del Norte salamanders, tailed frogs, red-legged frogs and sharp-tailed snakes.

Some potential conflicts include mining and unrestricted recreational use. Many mining claims for nickel surround the bog. Mining could alter the hydrology and affect the bog. Degradation (trampling of plants and trails through wetlands) from unrestricted recreational use has been observed in recent years.

The BLM held two public meetings in late April. A 30-day comment period, **ending on May 27**, asks for comments on how these areas should be managed. When making comments, give specific ideas (example: build a boardwalk in a non-sensitive area to reduce impact) on how you feel the BLM should manage these botanically rich areas. Address comments to: BLM, Coos Bay District, Attn. Bruce Rittenhouse, 1300 Airport Lane, North Bend, OR 97459-2000. NPSO members, especially those who have visited the area, are encouraged to comment.

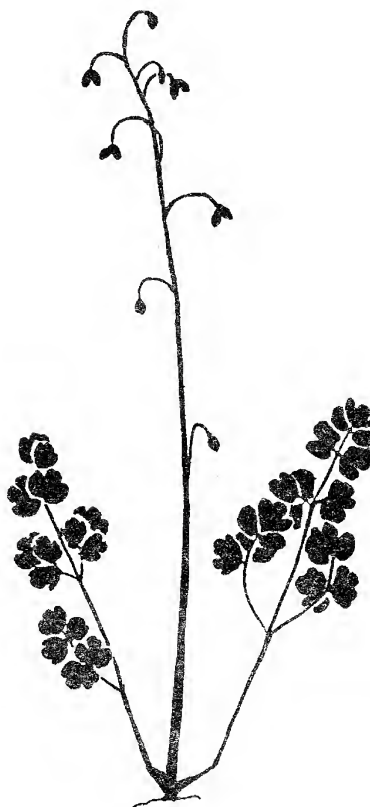
Submitted by the South Coast Chapter

Plant Puzzle

Sponsored by the Siskiyou Chapter

Do you recognize this native wildflower? The first person giving the correct scientific name will win a prize. Send your guess on a postcard to:

**Peter Zika, 4230 NW Clubhouse Pl., #1
Corvallis, OR 97330**



Jody DeLand of Idleyld Park was the first to solve the April puzzle: yarrow, *Achillea millefolium*.

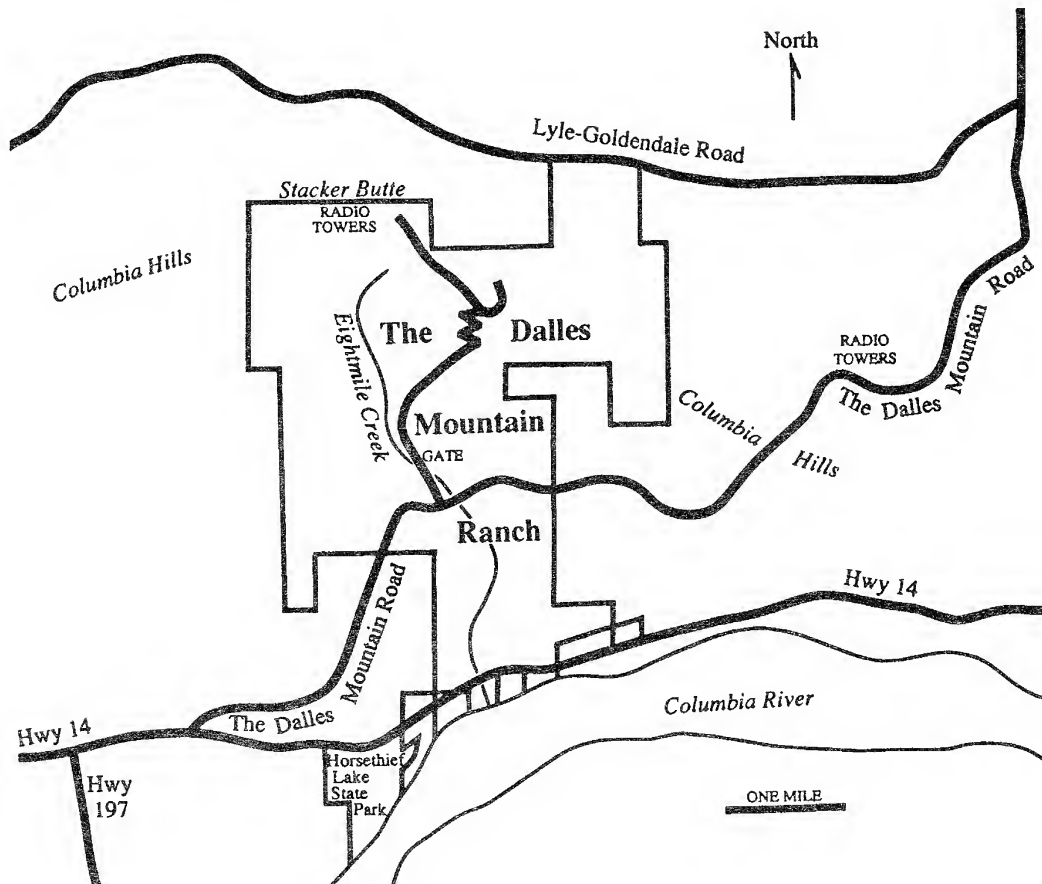
Washington Acquires The Dalles Mountain Ranch

The Dalles Mountain Ranch is now in public ownership. Through the efforts of the Trust for Public Lands and the Friends of the Columbia Gorge, it was purchased from the Bleakney family, its owner for decades, and transferred to the state of Washington. Part will be managed by Washington State Parks, and part by the Washington Department of Natural Resources.

The ranch is over 6000 acres in area, and stretches from the Columbia River just east of Horsethief Lake State Park north to Stacker Butte and the Lyle-Goldendale Road. It is traversed by the Dalles Mountain Road, a county road open to the

public, and by a private road along Eightmile Creek north to the summit of Stacker Butte. Whether this private road will be open to the public, or continues to be gated, depends on management decisions now being made by DNR. According to Nancy Russell, some staff members at DNR have proposed that the northernmost portions of the ranch, where stunning displays of wildflowers are found in April, May and June, be designated with a management classification which prohibits all public entry.

Dave Dobak
Portland Chapter



Map shows the boundaries of the Dalles Mountain Ranch.

List of plants found on The Dalles Mountain Ranch and Horsethief Lake State Park

This list was compiled from NPSO files by Charlene Holzwarth. Numbers at the left indicate the page number on which the species is described in Russ Jolley: *Wildflowers of the Columbia Gorge* (first) and Hitchcock & Cronquist: *Pacific Northwest Flora* (second). For compactness, the family suffix "aceae" has been abbreviated @. Place abbreviations: Columbia Hills, Horsethief Butte, Horsethief Lake State Park, Haystack Butte Road, The Dalles Mountain Road. (Haystack Butte is at the east end of the Columbia Hills, opposite the mouth of the Deschutes River.) Flowering begins: (early mid late - month).

RJ	HC	Species.....	Family	common name.....	Habitat, location, and flowering time
12	683	<i>Allium douglasii</i> v <i>nevii</i>	Lili@	Douglas onion.....	moist open grasslands (m-5)
166	154	<i>Arabis microphylla</i> v <i>microphylla</i> ...	Brassic@	little rockcress. . .	open rocky outcrops, cliffs, low elev HB (1-3)
107	113	<i>Arenaria franklinii</i> v <i>franklinii</i> ...	Caryophyll@	Franklin sandwort. . .	open gravel soil, high elev CH, DMR (1-5)
712	487	<i>Artemisia dracunculus</i>	Aster@	dragon wormwood.....	dry open, low elev (e-9)
715	488	<i>Artemisia rigida</i>	Aster@	rigid sagebrush.....	dry open, low elev (e-10)
281	255	<i>Astragalus revertiformis</i>	Fab@	Yakima milkvetch.....	open slopes, HB (m-4)
727	500	<i>Chaenactis douglasii</i> v <i>douglasii</i>	Aster@	hoary false yarrow.....	dry open, HB (1-5)
668	502	<i>Chrysothamnus viscidiflorus</i> v <i>lanceolatus</i>	Aster@	green rabbitbrush.....	dry, low elev, HB (9)
611	508	<i>Crepis barbiger</i>	Aster@	bearded hawksbeard.....	CH, w of DMR (1-6)
613	508	<i>Crepis intermedia</i>	Aster@	gray hawksbeard.....	top DMR (1-5)
614	509	<i>Crepis occidentalis</i>	Aster@	western hawksbeard.....	top DMR, HayBR (e-6)
179	165	<i>Draba douglasii</i>	Brassic@	Douglas draba.....	open gravel flats & top CH (m-4)
677	517	<i>Erigeron poliospermus</i> v <i>poliospermus</i> ...	Aster@	cushion fleabane.....	dry, low elev, HB (m-4)
76	80	<i>Eriogonum douglasii</i> v <i>tenu</i>	Polygon@	Douglas buckwheat. . .	dry open flats & slopes, all elev (m-5)
74	81	<i>Eriogonum thymoides</i>	Polygon@	thyme-leaved buckwheat. . .	dry stony ground, high elev, top CH (6)
373	308	<i>Gaura parviflora</i>	Onagr@	small-flowered gaura.....	HLP, HB (6)
648	523	<i>Gnaphalium microcephalum</i>	Aster@	slender cudweed.....	dry open; roadsides; low elev (8)
682	525	<i>Haplopappus carthamoides</i>	Aster@	rayless goldenweed.....	top DMR (m-7)
44	697	<i>Iris missouriensis</i>	Irid@	western blueflag. . .	vernal moist meadow, streambank, HB (m-5)
45	697	<i>Iris pseudacorus</i>	Irid@	yellow flag. . .	streambanks lake margins, low elev, HB (m-5)
97	106	<i>Lewisia rediviva</i>	Portulac@	bitterroot.....	dry gravel soil, open areas (e-5)
387	332	<i>Lomatium canbyi</i>	Api@	Canby biscuitroot.....	open slopes, all elev (e-3)
393	333	<i>Lomatium macrocarpum</i>	Api@	grayleaf desert parsley.....	open ground, all elev (1-3)
--	331	<i>Lomatium watsonii</i>	Api@	Watson desert parsley.....	open hillsides w/ sagebrush ()
302	267	<i>Lupinus leucophyllus</i>	Fab@	velvet lupine.....	dry open ground, all elev, DMR (6)
738	539	<i>Madia citriodora</i>	Aster@	lemon scented tarweed.....	dry hillsides, top DMR (e-6)
721	540	<i>Matricaria matricarioides</i>	Aster@	pineapple weed.....	roadsides, waste places, DMR (1-5)
491	395	<i>Mertensia oblongifolia</i>	Boragin@	prairie mertensia.....	grassy, high elev; top CH (1-4)
101	108	<i>Montia spathulata</i>	Portulac@	pale montia.....	open ground, HB (1-3)
507	405	<i>Nepeta cataria</i>	Lami@	catnip. . .	roadsides, streambanks, low elev, HB, DMR (m-7)
378	312	<i>Oenothera contorta</i>	Onagr@	slender evening primrose. . .	dry sandy areas low elev HB (m-5)
575	445	<i>Orobanch fasciculata</i>	Orobanch@	clustered broomrape.....	dry open, HB (1-5)
556	434	<i>Penstemon deustus</i> v <i>variabilis</i> ..	Scrophulari@	scorched penstemon.....	open ridge CH west of DMR (1-6)
465	375	<i>Phlox hoodii</i>	Polemoni@	Hood phlox.....	open ridge CH; gate at HayBR (m-4)
467	374	<i>Phlox speciosa</i>	Polemoni@	showy phlox. open wood, grassland; mid-high elev DMR (m-4)	
136	173	<i>Phoenicautis cheiranthoides</i>	Brassic@	daggerpod.....	open gravel; mid-high elev DMR (4)
579	448	<i>Plantago patagonica</i>	Plantagin@	indianwheat.....	dry sandy, low elev HB (1-5)
88	87	<i>Polygonum majus</i>	Polygon@	wiry knotweed.....	dry gravel/sandy, low elev (7)
250	218	<i>Potentilla gracilis</i>	Ros@	graceful cinquefoil . . .	moist open & woods, low-mid elev HB (m-5)
256	221	<i>Prunus virginiana</i> v <i>melanocarpa</i> *	Ros@	choke cherry.....	open slopes, woodland; low elev HB (e-5)
* compare with v <i>demissa</i> found west of Beacon Rock					
147	137	<i>Ranunculus reconditis</i>	Ranuncul@	obscure buttercup. . .	open grassland, top CH, top DMR (e-3)
263	223	<i>Rosa woodsii</i> v <i>ultramontana</i>	Ros@	pearhip rose.....	moist open & woods HB (1-5)
91	92	<i>Rumex occidentalis</i> v <i>procerus</i>	Polygon@	western dock. . .	drying vernal pond margins, streambanks (e-5)
511	408	<i>Scutellaria angustifolia</i>	Lami@	narrowleaf skullcap.....	dry open rocky, low elev (e-5)
117	118	<i>Silene menziesii</i> v <i>viscosa</i>	Caryophyll@	Menzies campion.....	streambank moist meadow, low elev HB (m-5)
47	698	<i>Sisyrinchium douglasii</i> v <i>douglasii</i>	Irid@	grass widow.....	open grass, low elev, west (e-3)
47	698	<i>Sisyrinchium douglasii</i> v <i>inflatum</i>	Irid@	grass widow.....	open grass, high elev, east (e-3)
42	696	<i>Zigadenus paniculatus</i>	Lili@	panicked death camas.....	dry open slopes, low elev, HB (e-4)

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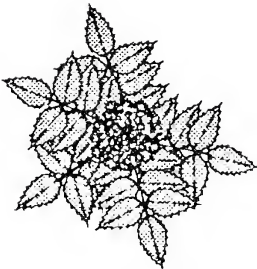
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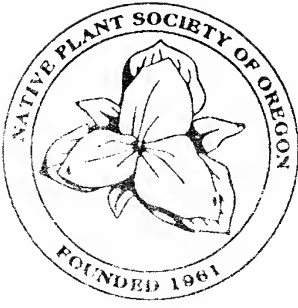
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of Oregon's native vegetation

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State News

State Officers: The following new state officers have been elected: Bruce Rittenhouse, president; Rhoda Love, vice president; Julie Thiel, secretary; Kari Yanskey, treasurer; Jerry Igo, Ethen Perkins, Peter Zika, directors. The nominating committee wishes to thank all those who ran for office.

Chapter News

Blue Mountain

Meeting: No meeting in June.

- June 4, Sat. **Field Trip:** Car pool to Bull Prairie Reservoir, south of Heppner. Meet at the NE corner of the Safeway parking lot, Pendleton, 8 A.M. Leader: Karl Urban, 276-8371.
- June 11, Sat. **Field Trip:** Caravan from Ukiah to Heppner, with stops along the way. Meet at the Ukiah USFS office, 10 A.M. Leader is Kari Yanskey, USFS, Ukiah.

Corvallis

- June 11, Sat. **Field Trip:** Loren Russell will lead to Sanno bog. Meet, 8:30 A.M., OSU parking lot, 26th and Monroe. Bring lunch. Call Dick Brainerd, 758-4500, for information.
- June 13, Mon. **Meeting:** 7:30 P.M. Room 2087 Cordley Hall, OSU campus. Jim Oliphant, OSU botanist, will speak on "The Orchids of Oregon." Call Keli Kuykendall, 758-8409, for more information.

Emerald

- June 11, Sat. **Field Trip:** Hike up Horsepasture Mt., in the McKenzie Ranger District, with Dave Predeek and Cheryl Friesen. Meet at South Eugene H.S., 8 A.M. Call Jenny Dimling, 465-6321, for more information.

Meeting: No meetings until September.

High Desert

Meeting: No meetings until September.

June 18-19
Sat.- Sun.

Field Trip: Fort Rock Valley/Christmas Valley. Overnight trip to see a variety of central Oregon landmarks -- Fort Rock, Fossil Lake and the sand dunes, the Lost Forest, the Black Hills RNA and the state's largest junipers. We will dry camp in an undeveloped spot in the desert. Call Stu Garrett, 389-6981 evenings, for information.

July 9, Sat.

Field Trip: Lookout Mountain. This spectacular wildflower hike to a protected area of the Ochoco National Forest is led by Richard Helliwell, Big Summit District botanist. Moderately difficult 5 mile hike. Meet at Ochoco Ranger Station, 9:30 A.M. Call Richard, 447-9645 days, 447-2249 evenings, for details.

Aug. 6, Sat.

Field Trip: Broken Top volcano. Annual trip to view spectacular glaciated scenery and alpine wildflowers west of Bend. Moderate to strenuous 5 mi. round trip, with 1500 foot elevation gain. Mostly off-trail hiking through Three Sisters Wilderness, so number limited to 12. **Pre-registration required!** Call Stu Garrett, 369-6981 evenings, to sign up.

Aug. 20, Sat.

Field Trip: Three Creeks lake and meadow. Easy hike, led by USFS botanist, Cindi O'Neil, through superb sub-alpine areas to see the unusual Newberry's gentian and other high-elevation flowers. Call Cindi, 389-3085 evenings, or 383-5564 days.

Mid-Columbia

June 1, Wed.

Meeting: 7:30 P.M. Mosier School. A full evening to catch up on many projects and activities. Bring slides, flower prints, or places to find them. We'll share stories.

June 25-26

Show: Wildflower show, including plants used by Native Americans and early settlers, at Crates Point Living History Park in the Dalles.

July 6, Wed.

Meeting: 7:30 P.M. At Stuart and Mildred Chapin's house in White Salmon. Barbara Robinson will present a program on the wildflowers of the high country.

North Coast

June 4, Sat.

Field Trip: Easy hike on newly restored Peninsula trail on Trask River to see *Sidalcea hirtipes* and *Dodecatheon austrofrigidum*. Meet at Tillamook PUD parking lot, 9 A.M., for car pooling. Trip leader is Jim Winslow, 842-4131.

June 12, Sun.

Field Trip: Mountain biking trip to Blue Lake Ridge. Area has flora similar to Saddle Mt., with some of the highest peaks in the Coast Range. Moderate biking on good, gravel roads, with 1,500 foot elevation gain. Trip size is limited. Call Jim Winslow, 842-4131, for more information, and to **preregister**.

June 28, Tues.

Meeting: 7 P.M. Tillamook YMCA, 610 Stillwell Ave. Program to be announced. Call Jaylen Jones, 842-7710, for information.

Portland

June 2-5, Th-Sun. **Field Trip:** Special 4 day trip to Hart Mt. National Wildlife Refuge, led by Lucile Housely and other botanists, to discover and photograph wildflowers in that unique geological region of southern Oregon. Meals, transportation and accommodations included for \$395, with 9-person maximum, 6-person minimum. A \$5- tax deductible donation will go to NPSO. Call Annmarie Housely, 282-0189, for information.

Regular field trips meet, 8:30 A.M., at Oregon Dept. of Transportation, NE 60th & Glisan, unless otherwise specified. Distances given are for round trips. Take lunch and rain gear. Contact trip leaders, or Mary Vogel (see below), for other questions.

June 4, Sat. **Field Trip:** Hamilton Mt. in the Columbia Gorge, led by Carroll Dubuar, 234-4135. 2nd meeting place at trailhead parking area, Beacon Rock State Park, 1/4 mi. north of WA Hwy. 14, 9:15 A.M. Hike passes waterfalls, rocky outcroppings, dramatic cliffs, on the way to wildflowers. Distance: 9 mi. loop; Elev: 2100'; Car miles: 76.

June 12, Sun. **Field Trip:** Grassy Knoll in the Columbia Gorge, led by Jon Shane, 235-0013. Hike traverses forest communities on the way to a grassy bald, offering spectacular views and fields of wildflowers in bloom. 180 species, including 3 rare CG endemics are found here. Distance: 5.5 mi.; Elev: 1200'; Car miles: about 140.

June 14, Tues. **Meeting:** 7 P.M. First United Methodist Church, 1838 SW Jefferson St., Portland. Dr. Joy Belsky will provide a stimulating, provocative argument supporting her thesis, "Why grazing should not be allowed on public lands." Here is your opportunity to hear the facts on this controversial subject from a rangeland expert.

June 18, Sat. **Field Trip:** Salmon River Trail, Mt. Hood National Forest, led by Maxine Wilson, 655-1523. Explore the plant communities of the old growth forest and rocky outcropping along the trail. Distance: 7.4 mi.; Elev: 800'; Car miles: 88. **Meet at Ashley's Restaurant, junction of highways 26 and 212.**

June 25, Sat. **Field Trip:** Little Crater Lake, led by Lance Holmberg, botanist at Bear Springs Ranger District, 328-6211. 2nd meeting place, Skyline Sno Park, Forest Service road 42, off Hwy. 26, 9:45 A.M. Distance: 3 mi.; Elev: reaches 5000'; Car miles: 140. Features pale blue-eyed grass, penstemons, "flowering log gardens." Take waterproof footwear for the meadow.

July 2, Sat. **Field Trip:** Bald Mt.-Salvation Springs up Lolo Pass. *Erythronium montanum* is likely to be in bloom. **Meet at Ashley's Restaurant**, as above. Call field trip coordinator Mary Vogel, 645-1992, for more information.

Officers: New officers elected were: Sue Allen, president; Mike and Nancy Fahey, first vice president/programs; Mary Vogel, second vice president/field trips; Marvel Gillespie, secretary; Jean France, treasurer.

Siskiyou

Meeting: There will be no meetings until September.

June 11, Sat. **Field Trip:** Barbara Mumblo will lead to Miller Lake Botanical Area. Will see Baker's cypress and Brewer's spruce. Meet, 9 A.M., Star Ranger Station (7 miles south of Ruch).

June 25, Sat. **Field Trip:** Working field trip. Please come and help pull star thistle from the summit of Table Rock. Work with folks from The Nature Conservancy and BLM. Meet at Lower Table Rock trailhead, 8 A.M.

July 4, Mon. **Show:** Irene Hollenbeck Memorial Wildflower Show, at Lithia Park. Call Barbara

Mumblo, 899-1812 (at work), if you want to help.

Officers: New officers are: Joan Seevers, president; Rick Prusz/Frank Lang, vice presidents; John McClendon, secretary/treasurer; Barbara Mumblo, field trips. David Kennedy, conservation chair.

South Coast

June 4-5,
Sat.-Sun.

Field Trip: Vulcan Lake, Kalmiopsis Wilderness. **Pre-registration required.** Enjoy day hikes into Kalmiopsis Wilderness to see many rare plant species including *Kalmiopsis leachiana*. Limit of 12, because of wilderness restriction. May have two groups if interest is high. For information and registration, call Bruce Rittenhouse, 888-9328.

Umpqua Valley

June 4, Sat.

Field Trip: Down the Coos Bay Wagon Rd., and up Cherry Creek, to see the Cherry Creek "big fir," enjoying roadside flowers along the way. Picnic at Big Tree Park. Meet at BLM parking lot, 777 NW Garden Valley Blvd., 7:45 A.M., for car pooling, with 8 A.M. departure. Call Jack Stubbs, 673-8046, for information.

June 9, Thurs.

Meeting: 7 P.M. Room 310, Douglas County Courthouse.

June 18, Sat.

Field Trip: To Eel Creek in Coos County. Meet at BLM parking lot, 777 NW Garden Valley Blvd., 7:45 A.M. for car pooling, with 8 A.M. departure. Call Richard Sommer, 673-3709, for more information.

Willamette Valley

June 4, Sat.

Field Trip: Estacada-Detroit loop driving trip, led by George and Harriett Schoppert. Easy trip for everyone, to see mountain flora and points of interest along the way. Meet, 8 A.M., South Salem K-Mart parking lot on Mission Street, or 9 A.M., Gingerbread House, Hwy. 22 at Mehama.

June 18, Sat.

Field Trip: Bruno Meadows, led by Clint Urey. A mid-mountain wet meadow, with a variety of interesting flora. Easy hike. Meet, 8 A.M., South Salem K-Mart, on Mission Street.

June 20, Mon.

Meeting: 6:30 P.M. Meet in St. Mary's parking lot for car pooling from Shaw to the Mader farm. You can get to Shaw by taking the Silver Falls exit off Highway 22, east of Salem. For more information call, 399-9680.

June 24-25
Fri.-Sat.

Field Trip: Illinois River Valley of southwest Oregon, led by Glenn and Barbara Halliday, to see the great floral diversity of the area, including Volmer and Bolander lilies in flower. Come for one, or both, days. Meet, each day, 8 A.M., at grocery store in Selma, U.S. Hwy. 199, southwest of Grants Pass.

July 9, Sat.

Field Trip: French Creek Ridge, a mid-mountain trip east of Salem, led by Wilbur Bluhm. Great plant variety includes the white rhododendron. Easy to moderate hike. Meet, 8 A.M., South Salem K-Mart parking lot, on Mission Street.

July 31, Sun.

Field Trip: Coast Range with Larry Scofield. Details in next month's Bulletin.

Wm. Cusick

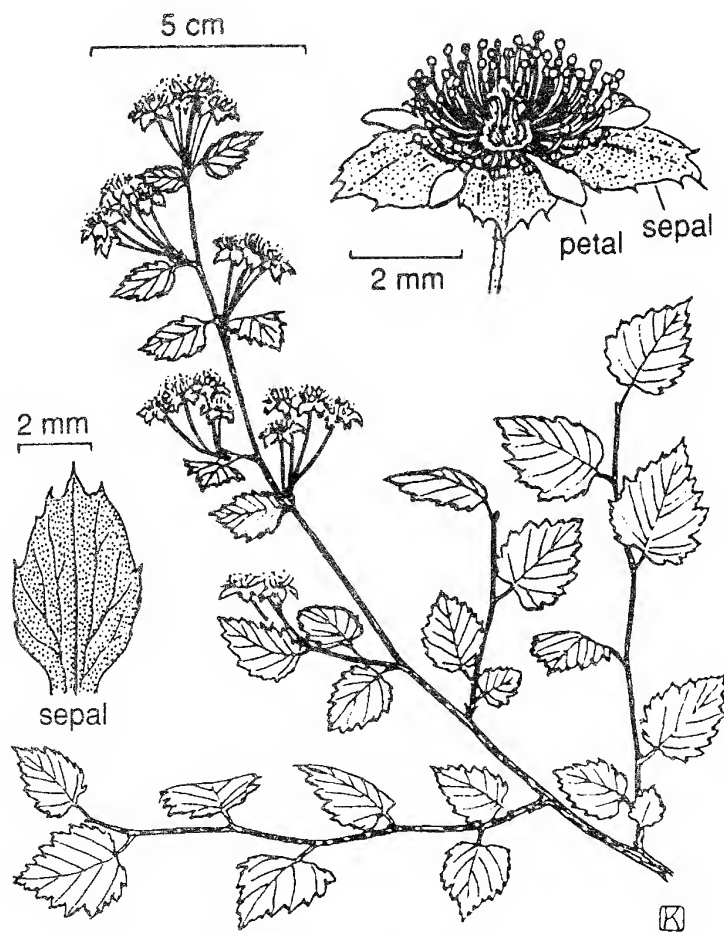
Meeting: Call Bob Ottersberg, 963-6043, for information.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.



Neviusia cliftonii

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President's Column

To begin my last column as outgoing president, there are several people I wish to thank for all their patience and support -- the Bulletin editors Bryan Boyce and John Robotham were both extremely flexible and accommodating; Jan and Dave Dobak for all their work, and all the board members who were so cooperative at meetings and made my job so pleasant and easy.. It has been a productive two years for the Society. We have seen great progress being the voice for native plants in Oregon, but we have much left to do. This task will be getting easier, I feel, over the next few years, with the development and implementation of the North American Native Plant Conservation Strategy. I recently represented the Society in a meeting in Phoenix, to begin the initial work on this project. The goal of the first meeting was to build a network for rare plant conservation among federal, state, academic and non-government groups such as ours. The dialog was productive, the task ahead enormous, and the interest, energy and enthusiasm high. We spent the first day outlining our expectations for the session and spent the second day in break out groups for research, conservation actions, public awareness and education and information and data bases. From these groups we generated action items and prioritized tasks. The third day was spent in regional groups. It was the strong feeling of the entire group that the strategy would best be implemented on a regionally coordinated level. The group assembled was not meant to be all inclusive this time, only representative of native plant interests. There are plans for a larger session next year. One exciting outgrowth of this was the decision among native plant societies to form an umbrella organization for the purposes of coordination, and possibly better representation to law makers.

Lisa Croft

As the incoming president, I hope to continue with these efforts and continue to strengthen our role in conservation issues in Oregon. I am looking forward to the challenges ahead and look forward to your input on the direction for the Society to take.

Bruce Rittenhouse

We Welcome New Members Joining 2/20/94 - 4/17/94

Blue Mountain

Whittaker, Jim and Ruth

Corvallis

Brophy, Laura
Damitio, James
Pyke, David A.
Stilwell, Frances P.

Emerald

Bohn, Barbara
Koester, Heiko
Landon, Jim
Pauly, Linda

High Desert

Castillo, Steve
Harless, Susan
Jeffers, Cindy
Padgham, Joyce

Mid-Columbia

Buchholz, Martha
Duncombe, Sally
Herzig, Tom and Connie

North Coast

Bartlett, Jan
Gienger, Sally

Portland

Allen, Alyce
Bowers, Prudy
Cromwell, Debra J.
Fast, M. Beth
Grimm, Nancy
Gross, Dave
Hartline, Jane
Karoly, Keith
Orlean, Debra
Plov, Giner
Wilcox, Susan

Siskiyou

Maurer, Carrol
Straw, Richard

Umpqua Valley

Yates, Zola

South Coast

Button, Clair
Field, Dana
Slane, Verna

Willamette Valley

Hays, Ron
Murray, Lenore and Harold

At Large

Eno, LeAnn
Rondeau, J. Hawkeye

Because of the excess of material received for publication in the Bulletin, the following article, and one to be published next month, have been held over for several months.

Botanical Treasures on Public Lands

Chapter One

Field season 1993... Botanists, students, volunteers and others working for (or with) the Bureau of Land Management (BLM) were hiking, walking and crawling the public lands of Oregon and Washington "in search of ..."

Nearly 32, 000 acres were inventoried last year, involving over 60 different plant species. Discoveries were many, including several notable range extensions. Monitoring of almost 55 species and an array of vegetation plots turned up more new discoveries. These activities were frequently coordinated and conducted with other federal and state agencies, as well as with universities and private organizations. Chapter one focuses on the highlights of the 1993 field season for the "east side" Oregon/Washington BLM districts. Look for the continuing saga in Chapter two, revealing the "west side" district botanical treasures managed on your public lands.

Lakeview District (Klamath Falls Resource Area) -- Oregon

Applegate's milk-vetch (*Astragalus applegatei*), listed as one of Oregon's rarest plants, is only known to occur on commercially zoned private sites in the Klamath Basin. Habitat suitable for the species is described as moist to wet meadows. So with that in mind, Resource Area botanist, Lou Whiteaker, focused an inventory on 350 acres of wet meadow on public lands within the Basin. Lou, assisted by botanist Dale Landrum, conducted an exhaustive search, but unfortunately no populations were located. "At this time, we can't be sure of the reason," said Lou, "but it may be due to different types of soil between the inventory site and the known population area."

The entire Stukel Mountain population of Columbia yellow-cress (*Rorippa columbiae*), a federal candidate 2 (C2) species, was surveyed in mid-July. Assisting BLM were 12 botanists representing the Winema, Rogue River and Umpqua National Forests, and their efforts to locate new plants on both public and private lands was a success. Lou

reports findings of 54 plants, many still seedlings. This represents an increase from the 26 plants found in 1992. Of the total, ten were on BLM lands, compared to six previously known .

Responding positively to the effects of the 1992 John Springs fire was blue-leaved penstemon (*Penstemon glaucinus*). Qualitative monitoring of this C2 species on the Yainax Butte proposed Area of Critical Environmental Concern (ACEC) showed the population was doing well.

Conducting plant clearances for proposed projects led to new discoveries of a C2 species -- three populations of mariposa lily (*Calochortus longebarbatus* var. *longebarbatus*), as well as several Bureau assessment species -- two populations of wild onion (*Allium campanulatum*), and four populations of fringed campion (*Silene nuda* ssp. *insectivora*).

Burns District -- Oregon

Relocating and discovering new populations of several C2 species were the benefits of 1993 inventories conducted by Nora Taylor, range conservationist for the Three Rivers Resource Area (RA). Two previously known (but not recently observed) populations of Columbia yellowcress (*Rorippa columbiae*) were relocated, and two new populations were discovered in the Harney Lake area. Assisting Nora in this effort was a Native American student from the Organization of Forgotten Americans. Three new populations of bastard kenotrophyta (*Astragalus tegetarioides*), and three of Leiberg's clover (*Trifolium leibergii*) were discovered, including the first population of the clover to be found on the west side of the Middle Fork of the Malheur River. All new and previously known populations were vigorous and healthy when observed.

One of the two known populations of Davis' peppergrass (*Lepidium davisii*) was monitored by Rick Hall, plant coordinator for Andrews RA. Rick found that while past droughts had some adverse effects on the number of plants, the wet spring of 1993 dramatically rejuvenated seedling numbers produced by this C2 species. The Burns and Vale district offices drafted a joint Conservation Agreement for this peppergrass with the U.S. Fish and Wildlife Service (FWS) which will be completed in 1994.

Kathy Cushman, district botanist, also reported on monitoring activities for several C2 species. Three populations of weak milk-vetch (*Astragalus soli-*

tarius), which had been slightly affected by past drought, are expected to revive following some average rain years. A monitoring station was established near the summit of Steens Mountain to determine the effects, if any, increased recreational use may have on Steens Mountain paintbrush (*Castilleja pilosa* var. *steenensis*). Populations of Biddle's lupine (*Lupinus biddlei*), which were severely impacted by past years of drought, showed an overall decrease in numbers, but it was a good flowering for remaining plants.

Vale District -- Oregon

During inventory and plant collections along the upper and lower canyon segments of the Owyhee River, new populations of two composites and one legume were discovered. Ertter's groundsel (*Senecio ertterae*), a C1 species, is a local endemic found growing only in volcanic tuff. Cusick's pincushion (*Chaenactis cusickii*), a C2 species is an Owyhee upland ash endemic. Sterile milk-vetch (*Astragalus sterilis*), another C2 species, which prefers growing only in a certain layer of volcanic ash. As its name implies, this last species has difficulty setting fertile seed. While all three species may be found in close association with each other, each depends on a different ash/volcanic formation within the Owyhee River drainage.

Inventory work in the Jordan RA relocated a population of collomia (*Collomia renacta*), a C2 species, last found in 1896! Coordination with another earlier investigator, Elaine Joyal, refined district database information on the type locality.

New populations and significant range extensions for Cronquist's stickseed (*Hackelia cronquistii*) were recorded by Lynda Smithman. She identified numerous populations along the small hill range just east of Payette, Idaho. This is the first time this C1 species has been found across the Snake River in Idaho. Betty White, amateur photographer from Adrian, Oregon, brought photograph of the species to Jean Findley, Vale District botanist. A field visit confirmed the new population, the first identified south of the Owyhee River.

A downward trend continues in populations of Mulford's milk-vetch (*Astragalus mulfordiae*). At a density study site, a large percentage of dead plants were discovered during 1993 monitoring activities. Jean stated that, "Signs of herbivory and a seven-year drought may have been contributing factors in the losses, but we hope to learn more by establishing additional monitoring plots this year."

A management plan was drafted in 1993 for the Leslie Gulch ACEC. The plan was prepared under a Conservation Agreement between BLM and FWS to conserve Ertter's groundsel (*Senecio ertterae*), a C1 species, and two C2 species, grimy ivesia (*Ivesia rhypara* var. *rhypara*) and Packard's mentzelia (*Mentzelia packardiae*).

Prineville District -- Oregon

Ron Halvorson, district natural resource specialist, reported on new population discoveries in 1993 for several C2 species. In Grant and Wheeler counties, Washington monkeyflower (*Mimulus washingtonensis*) was doing extremely well at 19 new locations. Seven more populations of arrowleaf thelypody (*Thelypodium eucosmum*) were found in remote, nearly inaccessible tributaries of the John Day River. While visiting a proposed land exchange parcel, one new population of Peck's long-bearded mariposa lily (*Calochortus longebarbatus* var. *peckii*) was discovered. Based upon the species as a whole, which is primarily found in the Ochoco NF, this is not a critical population. However, three new populations of Tygh Valley milk-vetch (*Astragalus tyghensis*) were found in the Criterion Ranch area; they were beyond the previously known range for this species, so this was an important discovery.

Although colonial luina (*Luina serpentina*) is found primarily in the Malheur NF, there are three known populations on BLM lands north of the forest boundary. Inventories of remaining potential habitats south of Mount Vernon did not turn up additional populations of this C1 species.

BLM is the primary agency managing the endemic C2, *Astragalus diaphanus* var. *diurnus*, and in 1993, inventories for this species continued along the South Fork of the John Day River. Ron stated that milk-vetch did very well this year, showing a tremendous increase in seedling survival in response to the excellent spring moisture. One new population was found and one known population had significantly expanded within its immediate habitat.

Benefits of a wet spring were evident from studies of another C2 species. A Forest Service employee from the Columbia River Gorge NSA assisted in monitoring smooth lomatium (*Lomatium laevigatum*) by using a transit to locate individual plants on a sheer rock wall. The plants near Biggs Junction appear to be recovering from drought.

Qualitative monitoring studies were conducted on populations of several C2 species which were reported to be doing well: pumice grapefern (*Botrychium pumicola*); green-tinged Indian paintbrush (*Castilleja chlorotica*); Washington monkeyflower (*Mimulus washingtonensis* var. *washingtonensis*); and arrowleaf thelypody (*Thelypodium eucosmum*).

Is the build up of thatch detrimental to *Calochortus longebarbatus* var. *peckii*? In November, 1992, to learn if this assumption was valid, 10 randomly-selected quadrants within a population excluded from grazing were burned. Burned and unburned quadrants were sampled last July, and data collected is yet to be tabulated. At this time, it doesn't appear the results will show a significant difference. A problem encountered in the study was that the late-season burning failed to completely remove a thick layer of moss beneath the standing vegetation. Natural fire would have most likely occurred during conditions promoting a hot all-consuming fire.

Spokane District -- Washington

Nearly a third of all public lands in the Spokane District have been surveyed for rare, threatened and endangered plants, which led to documenting the occurrence of 16 federal candidates. Since 1987, monitoring information has been collected on several of these species, in an effort to understand their life histories and plant community interactions, and to determine the effects of current management practices. Some of the Columbia Basin plants include a C1 species, Columbia milk-vetch (*Astragalus columbianus*), and several C2 species: Hoover's desert-parsley (*Lomatium tuberosum*), Hoover's tauschia (*Tauschia hooveri*), Columbia yellow-cress (*Rorippa columbiae*), whited milk-vetch (*Astragalus sinuatus*), and a locoweed (*Oxytropis campestris* var. *wanapum*). Highlights from three more species follow.

It was not until 1989 that populations of Washington polemonium (*Polemonium pectinatum*) were known to occur on public lands within the Coal Creek drainage in Lincoln County. Since then, inventory work for this C1 species revealed 15 new locations on public lands, several of which have recently come into BLM ownership through land exchanges. Baseline information on the population, community and seed bank dynamics of the species was collected in 1991 and was expanded to 11 permanent transects in 1993, so that the effects of grazing and hydrology can be determined.

A helicopter survey was conducted in 1992 to spot further potential habitat. Ground truthing, based on aerial observations took place in 1993, revealing two new populations of polemonium.

Dozens of potholes, small lakes and ponds were evaluated by Barbara Benner (Border RA), for populations of a proposed threatened species, *Howellia aquatilis*. The nearby Turnbull National Wildlife Refuge staff assisted in the BLM survey effort by sharing their clues to habitat recognition. This intensive inventory was conducted on an 8000-acre tract of the recently acquired Fish Trap property in Lincoln County, not far from other known locations. Pamela Camp, district botanist, said that this howellia is a particular challenge to survey. "It's a very small, rooted aquatic, is an annual with a short life cycle, doesn't bloom every year if conditions aren't right, and can be easily overlooked, especially when the day is cloudy." More surveys will be conducted by BLM in 1994 ("If it's not a drought year") through a challenge cost share with the Washington Natural Heritage Program.

Spalding's silene (*Silene spaldingii*), a C2 species, was located on public lands in the Coal Creek drainage in September 1993. This discovery represents an eastern range extension for this plant which is known to be distributed in the Palouse. Although the plant was dry and had set seed, it was distinctive enough to identify. A reconnaissance of other public lands in the vicinity turned up an additional 14 populations located in four different drainages in Lincoln and Spokane counties.

So, as you can see, it was a busy and productive year for "east side" BLM district offices of the Pacific Northwest. And those were only the highlights! Some districts have already dropped hints of what's in store for 1994, and this season should reveal many more discoveries, and answer many more questions, about the wonderful botanical treasures on public lands.

Barb Masinton
BLM Botanist

Shasta Snow-Wreath: Visiting a Newly-Discovered California Shrub

On May Day weekend, two Emerald Chapter members traveled to Shasta Lake, north of Redding, California, to see a, newly-discovered rose family shrub, the Shasta snow-wreath, *Neviusia cliftonii*.

The botanical world was thrilled in 1992, when a pair of botanists, exploring a limestone hillside east of Redding, discovered this heretofore unknown shrub, which turned out to be a new genus for California. When a new woody plant is discovered close to a major highway, as this one was, it seems to show what we have long suspected, that the botanical exploration of the West is far from finished. If a shrub such as the snow-wreath could have escaped the eyes of dedicated plant-hunters for nearly 200 years, what other new treasures await us in the mountains, deserts and wetlands of our region?

Five articles in the July, 1993 "Fremontia," journal of the California Native Plant Society, describe the exciting story of the discovery and naming of *Neviusia cliftonii*. Shasta snow-wreath was named, described and published in time to be included in the new "Jepson Manual." A search of literature and herbaria revealed that its closest living relative, the Alabama snow-wreath, *Neviusia alabamensis*, is itself a rare shrub, growing 2,000 miles away, in a few scattered locations in several southeastern states. This type of disjunct distribution is taken by plant geographers as evidence that the genus *Neviusia*, was once spread across our continent, at a time when the North American climate was milder than it is today. More distant relatives of the snow-wreath, in several other genera, are known from China and Japan.

Shasta snow-wreath is now known from a handful of sites near Lake Shasta. The shrub prefers a shady, north-facing slope and is invariably found on limestone soil close to a perennial stream. Two Emerald Chapter members, using maps and site information supplied by former NPSOer Julie Kierstead Nelson, now a botanist with the Shasta-Trinity National Forest, drove south of Weed the weekend of April 30 - May 1. We chose the Waters Gulch Trail, near Packer's Bay, as the most accessible site. The trail along the north side of Waters Gulch Creek, passes through a rich forest of conifers and broad leaved trees and shrubs and brightly-colored herbaceous wildflowers. We had

hiked perhaps a quarter of a mile when we found *Neviusia* right beside the trail, looking just like its photos in "Fremontia." The shrub has slim, reddish branches and lacy toothed leaves a bit reminiscent of ninebark or ocean spray. Snow-wreath flowers have 5 relatively free sepals and around 50 snowy white stamens. Those we saw did not appear to have petals.

The entire Waters Gulch plant community was exciting. In the July, 1993 "Fremontia," botanist Barbara Ertter, of the herbarium at the University of California at Berkeley, describes this ecosystem as rich in relict species from the Tertiary. We will not include a complete list here, but some of the unusual species we saw included the woody plants California buckeye (*Aesculus californica*), redbud (*Cercis occidentalis*), snowdrop bush (*Styrax officinalis* var. *redivivus*) and the unusual California ash (*Fraxinus dipetala*) with its two petals and two stamens. A couple of the unusual and showy herbaceous flowers were fire-cracker flower (*Dichelostemma idamaia*), red larkspur (*Delphinium nudicaule*) and the mint-like hydrophyll (*Draperia systyla*).

Please get in touch with one of us, if you wish more information about *Neviusia*. We hope to offer a May Day, 1995 trip to California, to again visit the plant and this wonderful area. Watch your "Bulletin" for more information next spring. But, beware, everywhere it is found, snow-wreath has a close and constant companion, poison oak!

Charlene Simpson and Rhoda Love
Emerald Chapter

Nature Conservancy Seeks Volunteers

The Nature Conservancy seeks volunteers to collect native plant materials and assist in their propagation. Restoration projects in the Portland area are limited by the lack of locally collected and propagated native plant material. Native plant materials that are available, in many cases, originate from sources outside the Portland area. Non-local plant material may negatively affect the local genetic diversity and reduce the success rate of those restoration projects. To address this problem, the Oregon Chapter of The Nature Conservancy, through a grant from Metropolitan Greenspaces/Demonstration Restoration Program, will develop a plant source comprised of locally collected plant materials. If you are interested in participating in a pioneering restoration project, The Nature Conservancy welcomes your help. Call Sarah Clausen or Doria Mateja, (503) 228-9561.

Jepson Manual Errata

Some errors have been discovered in the new "Jepson Manual." The Friends of the Jepson Herbarium will publish errata in their quarterly members' newsletter. They would like to hear from anyone who has problems with descriptions or in using keys. Contact them at:

Friends of the Jepson Herbarium
Jepson Herbarium
University of California
Berkeley, California 94720
Telephone: 415-643-7008

Nylon Book Covers Available

Teresa Rounds makes custom cordova book covers, with straps and velcro closure, for The Jepson Manual and other field guides, including bird books. She could also make a cover for your Hitchcock, if requested. A Jepson cover is \$15, including postage. Contact her at:

P.O. Box 30982
Santa Barbara, California 93130
Telephone: 805-569-8885

Here is an addendum for the missing family, *Balsaminaceae*, taken from "The Jepson Globe," vol. 5, no. 1, 1993.

Jan Dobak
Portland Chapter

[Addendum to the first and second printings of *The Jepson Manual: Higher Plants of California*. Balsaminaceae was inadvertently left out of *The Jepson Manual*. It should be inserted after Asteraceae. The family appears in the "Key to Families," pg. 86.]

BALSAMINACEAE TOUCH-ME-NOT FAMILY

Dieter Wilken

Ann, per, gen glabrous. ST watery to fleshy. LVS simple, alternate, opposite, or whorled, petioled; blade gen toothed, veins pinnate; stipules gen +/- 0. INFL: cyme, umbel-like, terminal or axillary, 1-8 fld. FL bisexual, bilateral; sepals 3-5, free; petals 3 or 5, unequal, free or +/- fused; stamens 5, filaments short, +/- flat, anthers +/- fused above stigma; ovary 1, superior, gen 5-chambered, stigmas 1-5, sessile. FR: capsule, explosive. 2-4 genera, +/- 800 spp.: trop, warm temp; some orn. [Wood 1975 J Arnold Arb 56:413-426]

IMPATIENS TOUCH-ME-NOT, JEWELWEED

LVS alternate. FL sepals 3, lateral 2 < lower (sometimes much reduced or 0), gen greenish, lower 1 pouched, gen spurred, colorful; petals 3, lower 2 notched to unequally 2-lobed, upper 1 gen < lower, entire, often keeled on back. 500-600 spp.: trop, warm temp Am, Eurasia, Afr. (Latin: impatient, from explosive fr). Petals also interpreted to be 5, lower 4 fused in 2 pairs.

1. Petals gen pink to purple, sometimes almost white, not spotted; sepal spur straight to curved < 90° *I. balfourii*
1' Petals yellow, red-spotted; sepal spur curved +/- 180° *I. noli-tangere*

I. balfourii J.D. Hook. Ann, 1.5-10 dm. LF: blade 2.5-4 cm, lanceolate to widely ovate, gen acuminate, sparsely short-hairy. INFL 4-8 fld, axillary and terminal. FL: lower sepal, incl spur, 16-22 mm, lateral sepals 2-5 mm. Wet sites, streambanks; < 1000 m. NCo, n CCo, s SnFrB, ne SCo; native to Himalaya Mtns.

I. noli-tangere L. Ann, 2-6 dm. LF: blade 3-12 cm, elliptic to ovate, acute, +/- glabrous. INFL gen 2-fld, axillary. FL: lower sepal, incl spur, 10-25 mm, lateral sepals 4-6 mm. Disturbed, moist, often shaded sites; < 500 m. n NCo; to AK, n ID, Eurasia. [*I. occidentalis* Rydb.] Probably introduced in CA as orn.

Oregon Vascular Plant Checklist

The Oregon Vascular Plant Checklist Group was formed on March 25th, 1994 at the Oregon State University Herbarium to write a checklist of the native and naturalized plants of Oregon. The group consists of Ken Chambers, Richard Halse, Jimmy Kagan, Aaron Liston, Bob Meinke, Brad Smith, Scott Sundberg, Karl Urban and Peter Zika. Other botanists will be invited to contribute treatments of various genera and families. The project is sponsored by the OSU Herbarium and is being coordinated by Scott Sundberg. The intention is to critically review and evaluate names that have been applied to plants in Oregon, and provide a list of currently accepted Latin names.

The checklist will include names for all species, subspecies and varieties of native and naturalized vascular plants occurring in Oregon. Names of Oregon plants included in "A Manual of the Higher Plants of Oregon," 2nd ed., Peck, 1961; "Flora of the Pacific Northwest," Hitchcock & Cronquist, 1973; "The Jepson Manual," Hickman, 1993; "An Illustrated Flora of the Pacific States," Abrams & Ferris, 1940-1960; "Intermountain Flora," Cronquist et. al., 1972-present; and "Flora of North America," Morin et. al., 1993-present, will be listed in the checklist, either as accepted names, or as synonyms. The widely used common names will also be included, and, where possible, native or non-native status of each plant name will be indicated. For species, subspecies or varieties that are new to the flora, we will give literature citations to guide users to additional information.

Although the checklist group was formed only recently, we already have a solid foundation from which to work. Much of this is thanks to Karl Urban, who, through sacrifice of one computer, possibly some of his eyesight, and probably pounds of skin flaking off his overworked fingers, produced a database of plant names, distributions, synonymy and acronyms for Oregon and Washington. He was assisted in this effort by Ken Chambers and Brad Smith. The database was mostly completed in 1989. Information was compiled from floras available at the time (Peck, Hitchcock & Cronquist, Abrams & Ferris, Munz & Keck), articles in "Madrono," records from the OSU Herbarium, and the observations of Ken Chambers. Since then, a few new floras and dozens of new monographs have provided new information. In addition, the recently published "A Synonymized Checklist of the Vascular Flora of the United States, Canada and Greenland," 2nd

ed., Kartesz, 1994, is useful as a bibliographic aid. The checklist group will be modifying Karl Urban's list by adding new floristic records, evaluating inconsistent nomenclature, and adding information on native status of Oregon plants.

On March 25, Karl transferred his database file to a computer in the OSU Herbarium. The file occupied over five megabytes of disk space. The database uses Paradox software, and can easily be updated, analyzed and manipulated. Since then, we have been gradually modifying the database. Right off the bat, Ken Chambers pulled out his copy of Peck's "Manual" (where he had been noting changes with his ball-point pen) and entered about 80 new records for Oregon, records he had gathered during decades of reading monographs and identifying specimens sent to the herbarium. Currently, we have a list of over 4,000 plant species, subspecies and varieties. This number will change, perhaps dramatically, before the list is complete.

The effort involved in completing this checklist is enormous. We will review literature in dozens of journals, published around the world and dating back to the 1960's. We will examine specimens of almost all plants included in the list, and will decide on the names to use. We will also seek out new records of plants in Oregon by consulting botanists throughout the state and by examining herbarium specimens.

How you can help. The checklist will eventually involve input from dozens of botanists. Because inclusion of plant names will require that we see specimens, before adding to the list, we especially want to encourage anyone who knows of new plant records for Oregon to contact us and send specimens documenting their finds. In the Corvallis area, we could use help in a variety of tasks. We need help proofreading the list and checking it against a national species checklist. We could also use help in doing library research and xeroxing. Finally, there are several tasks in the herbarium related to the project that could be done by qualified volunteers. If you would like to volunteer, please contact Scott Sundberg at 503-737-4106, Department of Botany and Plant Pathology, Oregon State University, 2082 Cordley Hall, Corvallis, Oregon 97331. New records can be reported to any member of the group.

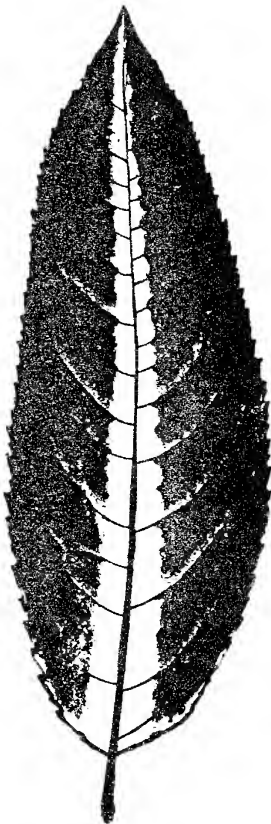
Scott Sundberg

Plant Puzzle

Sponsored by the Siskiyou Chapter

Do you recognize this native woody plant? The first person to give the correct scientific name will win a prize. Send your guess on a postcard to:

Peter Zika
4230 NW Clubhouse Pl., #1
Corvallis, Oregon 97330



Winner of the May puzzle was Mary Pakenham-Walsh of Portland. She was the first to recognize *Thalictrum alpinum*, dwarf or alpine meadowrue.

Endangered Species Act Update

New contentious issues continue to surface regarding reauthorization of a strong Endangered Species Act.

Three recent adverse court decisions -- one based on an Oregon challenge to the Act (The Sweet Home Chapter of Communities for a Great Oregon vs. Babbitt) -- are blatantly anti-wild species preservation. They set the stage for evisceration of the Act, should HR 1490 or S 1521 (see March, 1994 Bulletin) become the law of the land as part of the reauthorization process.

Three recent bills to amend the ESA have been introduced: HR 3978, the Pombo bill, limits protection to only those species determined to be "in the national interest to protect"; eliminates protection for bald eagles, grizzly bears, brown pelicans and other currently listed "populations"; requires review by an independent scientific team of a recovery plan before a species can be listed; authorizes government compensation to private parties for a variety of "losses" and for independent research; narrowly redefines "critical habitat" and "species."

Doolittle (California) has proposed requiring a published economic impact statement together with a cost-benefit analysis as a condition for ESA listing. This requirement would apply retroactively to all actions designating critical habitats, recovery plans and threatened species rules for all species listed since January 1, 1986. Work on all 400 species would have to be done within 12 months of bill passage. Enforcement or implementation could only be made with a favorable cost-benefit determination.

HR 3875 ("Private Property Owners Bill of Rights") is an amendment to both the Endangered Species Act and Section 404 of the Clean Water Act, introduced by Louisiana Representative Tauzin. This would limit agency entrance to private property to "collect information about the property," as it would require prior written consent of the landowner. It also requires government compensation to a landowner if any portion of his property becomes reduced in value by fifty per cent, as a result of any action under either law. It gives the government no express authority to to dispute a landowners' claim for compensation and allows landowners a double opportunity to claim compensation.

The Endangered Species Coalition (ESC) is planning nationwide public meetings in the fall, including Seattle, Washington, to develop awareness and support for reauthorization of a strong ESA. In addition, it is developing a panel of scientists willing to speak at meetings, to update groups on the ESA reauthorization process. NPSO chapters interested in contacting the Coalition's coordinator, for more information or to assist in planning may write: (Should the PNW be in Portland as well as Seattle?)

Faith T. Campbell
Natural Resources Defense Council
1350 New York Avenue NW
Washington, D. C. 20005
Telephone 202-783-7800
FAX 202-783-5917

Chapters may also request from Ms. Campbell a packet of information on the Act and on lobbying techniques.

Two April 14, 1994 letters supporting reauthorization of a strong ESA, one to Congressional representatives, signed by 55 organizations, and one to United States senators, signed by 34 organizations, were included in the latest packet from the Endangered Species Coalition. The name of only one clearly identifiable Pacific Northwest environmental organization was among them.

It is hard to believe that here in the Northwest, the locale of perhaps the most bitter of all recent ESA struggles, we are not doing our part to support, endorse and lobby for a strong Endangered Species Act. It is clear that letters, funds and advocates are urgently needed. NPSOers we need to wake up, smell the coffee and get into the Act; non-action is likely to pull the rug of species protection out from under us before we know it.

Mariana D. Bornholdt
Willamette Valley Chapter

ONRC Botany Field Trip, July 2-4

Wendell Wood, ONRC's South Central Field Coordinator, will lead a botanical and birding field trip to the Klamath Marsh National Wildlife Refuge and surrounding pine forest and natural areas (east of Crater Lake National Park) on July 2, 3 and 4. You may arrive at Wendell's cabin near the refuge and camp on Friday evening, July 1. Restroom and cooking facilities provided. Limited sleeping space inside. Rendezvous each morning

at the cabin at 9:30. July 2: Emphasis on plant ID; Wendell has developed a list of 350 plant species around the Marsh. Saturday night slide show on increased breeding bird productivity in the Klamath Basin Wildlife Refuges. July 3: Canoe or hike up Williamson River Canyon (Bring your own canoe). July 4: Early morning bird trip and 2 hour litter pick. Reply by June 25 to: Wendell Wood, ONRC, PO Box 667, Chiloquin, OR 97624. 503-783-2206. Send SASE envelope for directions and information. To participate, if not already a member, we would appreciate your joining. Individual membership is \$25.

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Copy due by the 10th of each month.

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BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual" where appropriate.

FORMAT: Submissions can be in any form, but at present editor prefers hard copy. Use of a modem is not possible now. Editor follows "The Associated Press Stylebook." For further details consult editor.

ORIGINALS: Submissions are not returned unless requested.

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Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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Address _____

City _____

State _____ ZIP+4 _____ - _____

Phone _____

Chapter (if known) _____

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If so, please write your old address here:

Please make checks for dues and contributions payable to:
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Jean Davis Memorial Scholarship Fund. \$ _____
 Leighton Ho Memorial Field Botany Award Fund. \$ _____
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Send completed form and full remittance to:

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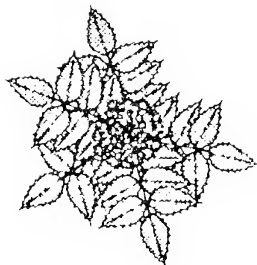
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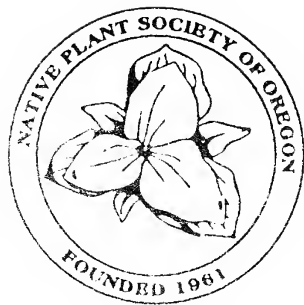
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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

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State News

Sept. 10.
Spring 1995

Board Meeting: Bend. Details in future Bulletins.
Annual Meeting: Portland.

Chapter News

Blue Mountain

Meeting: No meeting in July.

Corvallis

Meeting: No meetings until October.

July 16, Sat.

Field Trip: Loren Russell will lead to the rock garden communities on Browder Ridge in the old Cascades. Take lunch and be prepared for a moderately strenuous hike. Meet, 8:30 A.M., to car pool from the OSU parking lot across from the campus Beanery (26th and Monroe). Call Dick Brainerd, 758-4500, for more information.

Emerald

Meeting: No meetings until September.

July 10, Sun.

Field Trip: Watercolor paintout on Iron Mt. with Shirley Hilts. Sponsored by the Friends of Iron Mt. Bring pens and paints. Meet at the Garage at end of Civil Rd. (USFS 055, off Hwy. 20) at 10 A.M. Call Alice Smith, 367-5168, for information.

July 17, Sun.

Field Trip: Wildflower photography on Iron Mt., with Bob Ross from 10-2. Sponsored by the Friends of Iron Mt. Call Alice Smith, as above.

July 23, Sat.

Field Trip: Wildflower walk in 2000 acre Moon Point Botanical Special Interest Area, including an easy 2 mi. trail to the point for views, meadows with elk bedding areas, Moon Lake and adjacent bog and a stop at Warner Mt. Fire Lookout. Meet at 8 A.M., S. Eugene H.S. Trip leader is Evelyn Everett, 782-2266.

July 28-29
Th.-Fri.

Field Trip: Waldo Wilderness wildflower backpack. Help a botanist and NPSO members look for rare plants in wet meadows near Waldo Lake. Trip will be over-night. Contact Kim McMahan, 782-2291, by July 18, so food can be worked out.

July 30, Sat.

Field Trip: Old growth walk. Great for families with small kids. Half mile walk along Delta Old Growth Trail. Meet at Delta Amphitheater (Hwy. 126 to turnoff to Cougar Reservoir, follow signs to Delta Campground, approximately 1000 feet up from 126) at 10 A.M. Bring lunch to picnic afterwards, if you wish. Trip leader is Jenny Dimling, 465-6321.

Aug. 20, Sat.

Field Trip: McKenzie Research Natural Area walk. Come discover the vegetation in and around Huckleberry Lake, up on the crest of the Cascades. Moderate walking. Bring lunch and water. Meet at S. Eugene H.S., 8 A.M. Please call Jenny Dimling, 465-6321, to confirm if there is still room for participants as group size is limited.

Aug. 27, Sat.

Field Trip: Iron Mt. Klamath weed pull with Alice Smith. Call 367-5168 for more information.

High Desert

Meeting: No meetings until September.

July 9, Sat.

Field Trip: Lookout Mountain. This spectacular wildflower hike to a protected area of the Ochoco National Forest is led by Richard Helliwell, Big Summit District botanist. Moderately difficult 5 mile hike. Meet at Ochoco Ranger Station, 9:30 A.M. Call Richard, 447-9645 days, 447-2249 evenings, for details.

Aug. 6, Sat.

Field Trip: Broken Top volcano. Annual trip to view spectacular glaciated scenery and alpine wildflowers, west of Bend. Moderate to strenuous 5 mile round trip, with 1500 foot elevation gain. Mostly off-trail hiking through Three Sisters Wilderness, so number is limited to 12. **Pre-registration required!** Call Stu Garrett, 369-6981 evenings, to sign up.

Aug. 20, Sat.

Field Trip: Three Creeks lake and meadow. Easy hike, led by USFS botanist, Cindi O'Neil, through superb sub-alpine areas to see the unusual Newberry's gentian and other high-elevation flowers. Call Cindi, 389-3085 evenings, or 383-5564 days.

Mid-Columbia

July 6, Wed.

Meeting: 7:30 P.M. At Stuart and Mildred Chapin's house, 464 SW Eyrie Rd., White Salmon, WA., 509-493-2823. Barbara Robinson will present a program on the wildflowers of the high country.

Aug. 3, Wed.

Meeting: 6:30 P.M. Potluck dinner and meeting at the Igo home on Dry Creek Rd. We expect a visit from David Douglas. Call 503-478-3293 for directions.

North Coast

Meeting: None in July.

July 23, Sat.

Field Trip: Meet at 9 A.M., Tillamook PUD, or 9:45 at Mt. Hebo Ranger Station, for easy hike at summit of Mt. Hebo. The leader is Jaylen Jones, 842-7710.

Portland

For all Portland Chapter field trips: You are advised to take lunch, rain gear, and the other ten essentials for safe back country travel: whistle, map, compass, flashlight, first aid kit, pocket knife, sun protection, waterproof matches, emergency blanket, emergency food and clothing. Be prepared to pay 5 cents a mile for car pooling. Leaders will require participants to sign a liability waver. Distances given are for round trips. Meet at 8:30 A.M., Oregon Dept. of Transportation, NE 60th & Glisan, **unless time and place are otherwise noted..**

- July 2, Sat. **Field Trip:** Bald Mt., Lolo Pass area of Mt. Hood National Forest, led by Dee White (227-2581). Avalanche lily is likely to be in bloom on this 6.5 mi. trip. Elev. gain 1500 ft., driving distance 90 mi. **Note: Meeting place is ODOT. Ignore June Bulletin's instructions.**
- July 9, Sat. **Field Trip:** Preacher's Peak/Devil's Pulpit, PCT, northwest of Lolo Pass, led by USFS botanist, Mollie Sullivan (666-0704). We'll follow the ridge overlooking Bull Run Lake. One of the rare treats should be Howell's daisy. Meet at Zig Zag Ranger Station on Hwy. 26, at 8 A.M.
- July 10, Sun. **Field Trip:** Wahtum Lake, into the Columbia Wilderness, led by Linda Hardie (223-4668). Shooting stars, anemones, monkey flowers likely to be in bloom on this 5 mi. or longer trip. Elev. gain 1000 ft., driving distance 150 mi.
- July 12, Tues. **Meeting:** 7 P.M. First United Methodist Church, 1838 SW Jefferson St., Portland. Linda Hardie will give an illustrated talk on the wildflowers of the Siskiyou. Linda produces outstanding programs, and you won't want to miss this one. Note: There will be no meeting in August.
- July 16, Sat. **Field Trip:** Bagby Area of Mt. Hood National Forest, led by Charlene Holzwarth (284-3444). Explore the Natural Area by the hot springs and perhaps some areas of blowdown, where new wildflowers have emerged on this old growth forest walk. Take bathing suit and towel for soak. Second meeting place is Ripplebrook Ranger Station, Hwy. 224. 6-7 mi. trip, 1000 ft. elev. gain, 120 mi. driving distance.
- July 23, Sat. **Field Trip:** Sheep Canyon of Mt. St. Helens, led by Carroll Dubuar (234-4135). Meet at ODOT, **8 A.M.** Second meeting place: Gale Reservoir Recreation Site, 9 A.M. Trip about 5 mi., elev. gain 1300 ft., driving distance 80 mi.
- July 31, Sun. **Field Trip:** Teachuck Trail, Table Rock Wilderness, Salem District BLM, near Molalla, led by BLM botanist, Julie Thiel (362-2057 Salem). Will help develop plant list for this area, and may explore historic fire lookout. Expect to see Santiam lilies, arnica, Gorman's aster, harebells, paintbrush. Elev. gain 500 ft., driving distance 125 mi.
- Aug. 6, Sat. **Field Trip:** Bird Creek Meadows, Yakima Indian Reservation, led by Katharine Diack. Expect to pay \$5 per car to the Yakimas, for parking. On the southeast side of Mt. Adams, the trail in is high elevation, steep at times, but only 5 mi. round trip. Call 246-6572 for more information. Elev. gain ?, driving distance 218 mi. **Meet at 8 A.M.**

Siskiyou

- July 4, Mon. **Show:** Irene Hollenbeck Memorial Wildflower Show, at Lithia Park. Call Barbara Mumblo, 734-0424, or Joan SeEVERS, 770-2232, if you want to help. We need folks to set up, visit with people through the day, and take down the exhibit. We could use everyone's help to share the load. No need to be a plant expert to help.

July 16, Sat. **Field Trip:** To "Celebrate Wildflowers." Carol Harmount, botanist for the Prospect Ranger District, will lead a moderate, day-long hike in the Rogue-Umpqua Divide area. Meet at Medford Food for Less, 9 A.M., or the Prospect Ranger Station, 10 A.M. For more information call Carol Harmount, 560-3480.

Meeting: No meetings until September.

South Coast

July 9, Sat. **Field Trip:** To Bear Camp Botanical Area to see many unique plant species. Meet at Cougar Store in Agness, 9 A.M. For information call Bruce Rittenhouse, 888-9328, or Veva Stansell, 247-7153.

Aug. 20, Sat. **Field Trip:** Monique Slipher will lead a trip to the Game Lake area, to view many serpentine endemic plant species. Meet at the Gold Beach Ranger District, 9 A.M. For information, call Bruce Rittenhouse, 888-9328.

Umpqua Valley

July 9, Sat. **Meeting / Field Trip / Picnic:** Meet at BLM parking lot, for 8 A.M. departure. Group will travel to Dutchman Peak in the Cow Creek Drainage. Call Richard Sommer, 673-3709, for information.

Officers: New officers elected were: Sandra Stiltner, president; Richard Sommer, vice president; Mildred Thiele, secretary; Russ Holmes, treasurer.

Willamette Valley

Meeting: No meeting in July.

July 9, Sat. **Field Trip:** French Creek Ridge, a mid-mountain trip east of Salem, led by Wilbur Bluhm. Great plant variety, includes the white rhododendron. Easy to moderate hike. Meet at 8 A.M., South Salem K-Mart parking lot, on Mission Street. For information call Wilbur Bluhm, 393-2934.

July 31, Sun. **Field Trip:** Little Luckiamute Trail in Coast Range, with Larry Scofield. A scenic hike along the river in Black Rock area. Meet, 9 A.M., for car pooling, at Safeway Store parking lot in West Salem, or 10 A.M., at the city hall in Falls City. Call Larry Scofield, 787-3833, or Barbara Halliday, 371-1025, for information.

Aug. 6-7
Sat.-Sun. **Field Trip:** Three Creeks Lake area on Saturday, easy hike led by Clint Urey. Leave South Salem K-Mart parking lot, Mission St., 8 A.M., for 11 A.M. meeting at Three Creek Meadow (horse camp), about 15 miles ssw of Sisters. Tam McArthur Rim hike on Sunday, led by George and Harriett Schoppert. Steep hike for first half mile. Meet, 9 A.M., Three Creeks Lake store, about 16 miles ssw of Sisters. For information call Clint Urey, 393-0886, or the Schopperts, 859-2613.

Sept. 10, Sat. **Field Trip:** Olallie Meadows-Lake, in high Cascades. Details in future Bulletins.

Wm. Cusick

Meeting: No meetings until September.

New Members: New William Cusick Chapter members, Clair Button, Dana Field and Verna Slane, were inadvertently reported for the South Coast Chapter.

- July 10, Sun. **Work Party:** Work day at the new Gangloff Park, installing an interpretive trail. Meet at 9 A.M. at the park on the western edge of La Grande, with shovels and wheelbarrows. Call Bob Ottersberg, 963-6043, for more information.
- July 17, Sun. **Field Trip:** Mt. Howard. Tour of alpine vegetation, including the rare Greenman's lomatium. Trip led by Marty Stein. Mt. Howard, at 8000 ft., overlooks Wallowa Lake, and is accessible by tram for \$10 round trip. Meet at the tram at 10 A.M. Call Marty Stein, 426-4978, for more information.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

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President's Column

Now that summer is upon us and Oregon's diverse wildflowers are in full bloom, I would like to mention a few things which might interest our members. First, at its last meeting, the Board of Directors approved the idea of a Symposium on Oregon's Native Flora. This Symposium (at least in my eyes) would bring together much of the research that has occurred in Oregon dealing with our native flora. The range of topics is intended to reach all audiences and would include rare plant monitoring, plant community studies, non-vascular plant and fungi studies, forest and range issues dealing with native species, taxonomic studies, pollination and reproductive biology studies, landscaping with natives and wildflower photography. Many more topics could be included. This will be a major effort on NPSO's part, and would be similar to the Symposium on Rare Plants in California. Hopefully, NPSO could receive some help from state and federal agencies. It looks like something like this would occur in 1996. If anyone is interested in helping or possibly giving a presentation (It's a great opportunity for graduate students.) please get in touch with me.

I also want to encourage members to get involved in NPSO activities, and to get involved in the decision-making process on public lands. I encourage members to attend field trips and meetings. NPSO offers some of the best field trips, year in and year out, to some of Oregon's unique places. (I wish I could go every weekend.) It's a nice way to meet folks with common interests, and I encourage every member to bring along a friend (especially a non-member) to show her or him what NPSO is all about.

Further, I encourage members to become involved in public land issues. Get on mailing lists for upcoming state and federal agency planning (Range Reform and Eastside EIS are currently going on.), attend public meetings and send in written comments. I work with a federal agency and it is frustrating when the public does not comment. Get involved early in the process, be proactive and volunteer your time. The NPSO must lead in raising the awareness level of native vegetation in the agencies' minds. So often this is an overlooked resource. I would recommend contacting the botanist at the nearest agency, and finding out how you can become involved.

With that, get out and enjoy our native wildflowers!!

Bruce Rittenhouse

NPSO Challenge Cost Share Recipients

The state board of directors awarded two challenge cost shares for \$500 each, at the last board meeting in Ashland. The recipients were the U.S. Fish and Wildlife Service, William Finley Wildlife Refuge, to begin the development of a Willamette Valley Prairie Interpretive Site, and to the Fremont National Forest, to conduct inventories for the Category 1 species Oregon semaphore grass (*Pleuropogon oregonus*). These were the only two groups applying. Hopefully, next year more agencies or groups will apply. Congratulations to the recipients.

Membership Committee Seeks Computer

The Membership Committee's computer, donated three years ago by Forest Farm Nursery, is reaching the end of its life. The Committee is asking for the donation of another machine. Any IBM-type PC (XT or better, with hard disk) is required. The machine must be in good working condition. Contribution is tax deductible. Contact: Dave Dobak (telephone 503-248-9242); e-mail daved@siskiyou.pen.tek.com).

Vernon Holloway, 1912-1994

Vernon Holloway, NPSO member for many years, passed away in May. NPSO members remember many programs presented by Vernon and Celeste Holloway, combining his photography with her botanical study, including comprehensive coverage of the genus *Mimulus* and the family *Orchidaceae*.

Botanical Treasures on Public Lands

Chapter Two

In last month's Bulletin, you read about the busy 1993 field season of the many botanists, students, volunteers and others working for (or with) the "east side" Bureau of Land Management (BLM) districts in Oregon and Washington. The "west side" BLM district folks were also hiking, walking and crawling the public lands of Oregon and Washington "in search of..."

As a review, throughout Oregon and Washington nearly 32,000 acres were inventoried last year involving over 60 different plant species. Discoveries were many, including several notable range extensions. Monitoring of almost 55 species and an array of vegetation plots turned up more new discoveries. All these activities were frequently coordinated and conducted with other federal and state agencies, as well as with universities and private organizations. Read on for the highlights involving some of the botanical treasures on **your** public lands from the Cascades to the coast.

Salem District -- Oregon

Searching for those elusive plants can be a risky business, but there are rewards. After traversing five miles of steep, rocky ridgetops in the vicinity of Mt. Jefferson, the Salem District reported discoveries of three new populations of Gorman's aster (*Aster gormanii*). These C2 plants were found in their subalpine habitat within the original range for this species. However, a species preferring cold water habitats of springs or streams is cold-water corydalis (*Corydalis aqua-gelidae*). During a 100 percent survey conducted in potential habitat areas, two new populations of this C2 plant were located on BLM land, expanding its known range southward.

Larry Scofield, district botanist, reported on monitoring studies which were resumed during 1993 for several C2 species. Gorman's aster (*Aster gormanii*) populations, monitored since 1978, show a tendency to fluctuate depending on annual weather patterns. Trask River shooting star (*Dodecatheon astrofrigidum*), a candidate species since September, 1993 has been monitored by Tillamook RA for two years. Studies show this plant grows between the high and low water mark along the Trask River, and populations fluctuate based on

annual precipitation. Coast Range fawn lily (*Erythronium elegans*) studies, conducted under a challenge cost share agreement with Berry Botanic Garden, show populations may be affected by elk herbivory. Monitoring this summer is designed to help test this theory. Tall bugbane (*Cimicifuga elata*) has been monitored for two years by the Oregon Department of Agriculture (ODA) under another challenge cost share agreement. District personnel are anxiously awaiting the 1993 report for this species which grows along the edge of the Willamette Valley.

Eugene District -- Oregon

The Conservation Strategy for Umpqua green gentian (*Frasera umpquaensis*) has been signed! This well coordinated effort between the Forest Service (Umpqua, Rogue River, Willamette and Siskiyou) and the BLM (Eugene and Medford districts) addresses gentian populations at Upper Elk Meadows Research Natural Area (RNA). Monitoring studies are to be established this year. Inventories conducted in and around the RNA revealed two more subpopulations of this C2 species, which is known to grow in coniferous forests, ranging from moist, shady to open habitats.

Nancy Wogen, district botanist, also reported that population numbers of the endangered Bradshaw's lomatium (*Lomatium bradshawii*) appeared stable. However, 1992 data indicate that recruitment appears limited within the population. Current Transition Matrix Modeling results (by ODA) suggest the population may be in trouble over the long term, so efforts continue to be focused on improving habitat conditions. Predictions should become more accurate through the addition of demographic data over the years.

Roseburg District -- Oregon

New populations of two C2 species were located during Roseburg District inventories last year. Cox's mariposa lily (*Calochortus coxii*) was located along Red Ridge. Wayside aster (*Aster vialis*), thought to be extinct until 1980, was located by Native Plant Society of Oregon (NPSO) volunteers Mildred Thiel and Mary Carlson, along Little River. This was reported as the first wayside aster population ever recorded in this drainage. Congratulations on a nice find!

Tracking population numbers over a period of time was the intent of 1993 ecological status monitoring, initiated for *Calochortus coxii*, and Umpqua mariposa lily (*C. umpquaensis*), a C1

species. Russ Holmes, district botanist, reported that additional monitoring plots need to be established in 1994, before a baseline population estimate can be made. A conservation strategy will also be prepared in 1994 for *C. umpquaensis*, in cooperation with the Medford BLM and the Umpqua National Forest. The strategy will prescribe various management actions intended to remove threats, improve habitat conditions and stabilize population numbers.

Medford District -- Oregon

The Medford District, under the direction of botanist, Joan Seevers, participated in a challenge cost share with the Siskiyou Chapter of the NPSO. The project involved inventorying three annual C2 species known to occupy vernal wet areas, with the main focus on the coral-seeded allocarya (*Plagiobothrys figuratus* ssp. *corallocarpa*). This species, last collected in 1943 by Detling, was thought to be extinct, when, in 1991, Richard Brock rediscovered a small population on public land near Lincoln Flats on the Greensprings east of Ashland. This population was associated with two other C2 species, Bellinger's meadowfoam (*Limnanthes floccosa* ssp. *bellingeriana*), and pygmy monkeyflower (*Mimulus pygmaeus*). The NPSO chapter work was headed by Richard Brock, and 23 populations of the coral-seeded allocarya were located. Two of the "new" populations were on public land, one on BLM land and the other at Rogue Community College. Joan says, "Thanks to the Siskiyou Chapter for **GREAT WORK!**"

The Nature Conservancy provided the Medford District valuable assistance in a recent land exchange action which enabled the Ashland RA to acquire 200 acres of habitat for two C2 species, Green's mariposa lily (*Calochortus greenii*) and Detling's microseris (*Microseris laciniata* ssp. *detlingii*). The block of land lies just to the west of Interstate 5 in the Siskiyou Pass area of southern Jackson County, and has the largest known population of Green's mariposa lily in Oregon. Prior to the exchange, the parcel was destined to be divided up into five acre ranchettes! This would not only have caused destruction of existing habitat on these 200 acres, but would have led to increased recreational use of adjacent public lands, also known to support populations of the lily. That was close!

A statistically designed monitoring plan for Cook's lomatium (*Lomatium cookii*) was developed and implemented in the Grants Pass RA dur-

ing the spring. The site in the Illinois Valley is at French Flat, a proposed ACEC, and is the only known habitat on public land for this lomatium. This area is overlain with placer claims and has had extensive mining since the late 19th century. The study will help determine long-term population trends for this C1 species. Cook's lomatium was newly described in 1986 by Jimmy Kagan of the Oregon Natural Heritage program; the type locality is the Agate Desert near Medford. This species is most similar to Bradshaw's lomatium (*Lomatium bradshawii*), and endangered plant found in the Willamette Valley.

Coos Bay District -- Oregon

Bruce Rittenhouse, district botanist, emphasized their focus on continuing studies of salt marsh bird's-beak (*Cordylanthus maritimus* ssp. *palustris*), a C2 species found growing in a high salt marsh on North Spit. This species may be adversely impacted by vehicle use on existing roads within its habitat, and study objectives will determine level of impacts and population trends.

Identifying and preventing impacts to native plants and the threatened western snowy plover is the district's management objective for controlling European beachgrass (*Ammophila arenaria*). There are plans to begin removing beachgrass, followed by vegetation monitoring to study the effectiveness of the removal and native plant reestablishment. The District is also pursuing local classification of European beachgrass as a noxious weed.

Monitoring of Wolf's evening primrose (*Oenothera wolfii*), (C2), and Waldo gentian (*Gentiana setigera*) (C1) will begin in 1994.

So, as you can see, it was also a busy and productive year for "west side" BLM district offices of the Pacific Northwest. And those were only the highlights! Planning for the 1994 field season is well under way, and expectations are high for many more discoveries and in finding answers to many more questions about the wonderful botanical treasures on public lands.

Barb Masinton
BLM Botanist

Comments Needed For Range Reform EIS

Right now, comments are being sought for the Draft Environmental Impact Statement on Range-land Reform prepared by the Bureau of Land Management in cooperation with the Forest Service. The NPSO is preparing a statement, but individual members are also encouraged to comment. Comments are due on July 28, and many of you may not have had time to read through the document. Having read through most of the EIS, these are the issues I think should be addressed.

1. LIST OF PREPARERS - Of the 141 preparers listed on pages 5-4 through 13, not one single botanist or ecologist was included. To make matters worse, this included 25 range conservationists (which is not necessarily bad, but some "range cons" do have a reputation). Even worse, 24 management types (district managers, associate district managers, area managers, district rangers and division chiefs) were included. Every discipline except botany and ecology was represented. We should ask that some botanists and ecologists be included in the preparation of the final EIS.

2. SPECIAL STATUS SPECIES - The definition of special status species given on page 3-48 includes species listed by state and federal agencies as threatened, endangered, proposed, candidate, sensitive, of special concern, and any group formally designated as a management concern. Page 3-49 says that a complete list of special status species is given in Appendix F. But, Appendix F only lists species which are federally listed or proposed as of September, 1993, and does not include federal candidates, state listed, BLM and Forest Service sensitive, etc. The definition needs to be changed, or the list extended to include the other species.

Also, if grazing is a recognizable threat to a federally listed species, that species should be afforded protection under the ESA. Many of these species should not be adversely affected by grazing. The species which are being impacted are those other special status species, especially federal candidates and agency sensitive species.

3. SERAL STAGES IN RANGELAND ECOSYSTEMS - The definition of early seral stage on page 3-26 mentions that early seral stages are defined by having 0 to 24 of the potential plant com-

munity present. Based on this definition, that would make cheatgrass (and crested wheatgrass seedlings) stands early seral stages. This is invalid because cheatgrass is considered a fire climax and will NEVER succeed into native-perennial shrub communities. A study in the Idaho National Engineering Laboratory (INEL) by Anderson and Holte (1981) has found that on permanent plots over a 25 year period without grazing (this area was heavily grazed prior to the study) that there has been no evidence of seral replacement among grass species.

Over all, the EIS is a step in the right direction, in managing livestock on public lands. If you want to send comments, mail them to: Rangeland Reform, 1994 EIS, Bureau of Land Management, PO Box 66300, Washington, D.C. 20035-6300, **before July 28.**

Bruce Rittenhouse
NPSO President

Alnus rhombifolia Seeds Sought

Wild collected seeds of *Alnus rhombifolia* (Nutt.) have been requested by a French arboretum. The Arboretum national des Barres, located near Orleans in northern France, is renewing and upgrading its collection, and requires wild collected seeds for expression of intraspecific variability. Collection from a variety of sites in Oregon would help assure survival in the arboretum's environment.

NPSO members who wish to collect seeds for this project should label them with site identification and date of collection.

Send them to Jan and Dave Dobak, for forwarding to the arboretum. Collectors are reminded to make certain of their identification of *A. rhombifolia* which may be difficult to distinguish from *A. rubra*.

Jan and Dave Dobak
2584 NW Savier St.
Portland, OR 97210

Oregon Initiates Ten Million Dollar Watershed Health Program

Oregon has undertaken an ambitious new program to promote healthy watersheds. This action is primarily a response to endangered species listings, especially salmon, and recognition that our environment needs help. The Watershed Health Program is an interagency effort, with representatives from nine state agencies all working together, and with local communities, to design and implement on-the-ground projects that enhance ecosystem health. The program focuses on two parts of the state at this time -- the Grande Ronde Basin and the South Coast/Rogue Basins, with field offices in each area. The Oregon legislature has committed ten million dollars from the lottery to fund this effort.

The Native Plant Society of Oregon has an opportunity to participate in this program by proposing projects that improve native plant habitat. The process for initiating a project starts with getting involved with local watershed councils. These groups of local citizens are empowered with setting priorities for on-the-ground improvements in their regions, many of which can be funded by the Watershed Health Program. Watershed councils also work with the field teams in our target basins to develop watershed assessments, get technical advice, and prepare grant proposals. So far, the emphasis has been on water quality and salmon issues, but our over all goal is to improve the health of **entire** watersheds, from ridgetop to ridgetop, with benefits to all species. **The program needs input from groups like NPSO to ensure that some parts of our watersheds, like native and endangered plants, are not overlooked.**

Potential projects that improve conditions for native plants could include noxious weed control efforts, endangered species recovery, habitat enhancement, or native plant habitat protection, to name just a few. Our criteria emphasize on-the-ground projects on private land, but even proposals to develop educational programs to inform the public about native plant resources can be considered. There is no set deadline for submitting proposals, but all of the funding for the program must be allocated by June 30, 1995. Please give this some discussion within your local chapter. Even if the program is not focused on your watershed at this time, it may move to your area in the future.

If you would like additional information, please contact me, or your nearest Watershed Health Program field office. Their addresses are: South Coast/Rogue Field Office: Oregon Watershed Health Program, P.O. Box 440, Grants Pass, OR 97526, telephone (503) 471-6514; Grande Ronde Field Office: Oregon Watershed Health Program, 1916 Island Ave., La Grande, OR 97850, telephone (503) 962-504. If you would like someone from the program to make a presentation to your chapter, please let me know!

Tom Kaye
Oregon Department of Agriculture
Telephone: (503) 737-2346

Gold Beach Botanist Recognized

Veva Stansell, Gold Beach botanist, and a long-time member of the Native Plant Society of Oregon, was recognized for her outstanding work in the Threatened, Endangered and Sensitive Species Program, in the Siskiyou National Forest. Her Regional Award was presented on May 26th, at the Open House Celebrating Wildflowers 1994.

Following the presentation, Veva, and other botanists, led the many people attending the program along the newly developed Limpy Creek Botanical Trail, located 20 minutes out of Grants Pass, Oregon. This easy, one mile hiking trail, through riparian and serpentine meadow habitats, is well designed, with bridges in place. Interpretive signs by Larry Crosby, Recreational Specialist, will soon be added.

Charlene Holzwarth
Portland Chapter

The Botanist and Her Muleskinner

An account of the travels of Lilla and John R. Leach, in the Siskiyou National Forest in the nineteen twenties and thirties, is available at the Leach Botanical Garden, 6704 SE 122nd Avenue, Portland, Oregon 97236.

These descriptions of the Leaches expeditions to Curry and Josephine counties were drawn from letters, interviews, Lilla's field notes, a variety of manuscripts, and some published sources, and are accompanied by 25 pictures and maps. Their searches for rare and beautiful wildflowers in southern Oregon, using their favorite burros, Violet and Pansy, to pack their gear, was rewarded by many, extraordinary plants. With her botanical skills, and his camp manager experience, they made an unusually successful research team. Because they were hiking in areas unavailable to other botanists, their searches were rewarded with the opportunity to name many floral discoveries.

Many people will want to own this book for the burro pictures. Descriptions of crossing icy mountain streams with no bridges, and managing pack animals in cougar country capture the flavor of exploring Siskiyou County. Golda Kirkpatrick's recollections of John and Lilla Leach add much to our understanding of southern Oregon's people and places, at the time.

The book is sponsored by the Leach Botanical Garden and the Siskiyou National Forest, and can be purchased at the Garden's new book store for \$7.95. NPSO chapters may want to know that group rates are available for the purchase of ten or more copies. Write to the Garden, or call (503) 761-9503.

Charlene Holzwarth
Portland Chapter

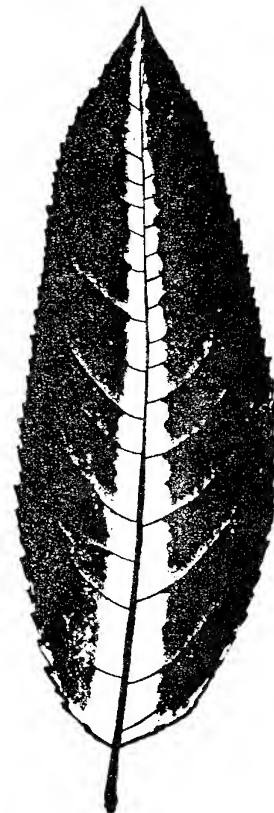
Charlene Holzwarth has modestly omitted saying that she is one of the authors of The Botanist and Her Muleskinner. -- Editor.

Plant Puzzle

Sponsored by the Siskiyou Chapter

Do you recognize this native woody plant? The first person to give the correct scientific name will win a prize. Send your guess on a postcard to:

Peter Zika
4230 NW Clubhouse Pl., #1
Corvallis, Oregon 97330



1
cm

There was no correct answer to the June puzzle. So, here it is again. (The best place to hide something is in the open.)

Announcing Plans for the 1995 Glide Wildflower Show

As many NPSO members may know, the Glide Wildflower Show was an annual tradition for many years. The show was both scientific and educational, and included hundreds of specimens from throughout southwestern Oregon. Two years ago the show seemed to come to an end. The organizers needed to step down from the commitment of putting on the show, and others did not appear to take their places -- until now.

With the guidance and assistance of previous Wildflower Show Council members, and the commitment and energy of both new and experienced volunteers, plans for a 1995 show are proceeding. The show is scheduled for the last weekend in April, to be held at the Glide Community Center (April 29th and 30th, remaining open Monday morning for organized school groups).

The Glide Wildflower Show has always been a non-commercial event, depending on a great number of volunteers for its success. At this time, we are trying to identify people interested in helping with the 1995 show. While much of the work involved does not require training, there is always a great need for botanists. If you are interested in helping with the 1995 show (non-botanists as well as botanists needed!), please call or write Abbey Rosso, 503-498-2263, P.O. Box 235 Idleyld Park, Oregon 97447, or call Jody DeLand, 503-496-0409.

Thanks to all who have volunteered so far. We hope everyone will plan on attending the **1995 Glide Wildflower Show!**

Abbey Rosso

NPSO Items For Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (503-389-6981). Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu, for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett (see above). \$1 each; minimum order is five.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one drawn by Valerie Sloane. They are printed on pastel parchment-style paper with matching envelopes. Notecards are sold through NPSO chapters, and cost \$4 per packet. Contact Lisa Croft, 699 W 2nd, Prineville, OR 97754 (503-447-5270).

NPSO T-Shirts are available in various colors and designs, and are sold through NPSO chapters.

NPSO'S Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 652 W 10th St., #1, Eugene, OR 97402 (503-485-1868). \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory lists names, addresses, and telephone numbers of members, as of April, 1993. Available from Jan Dobak, 2584 NW Xavier St., Portland, OR 97210-2412. \$2 each.

STATE OFFICERS

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 KALMIOPSIS EDITOR Frank Lang. 535 Taylor St, Ashland 97520; w:552-6341; h:482-5235

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name_____

Address_____

City_____

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Phone_____

Chapter (if known)_____

Is this a change of address?

If so, please write your old address here:

Please make checks for dues and contributions payable to:
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Jean Davis Memorial Scholarship Fund. \$_____

Leighton Ho Memorial Field Botany Award Fund. . . \$_____

Rare and Endangered Plant Fund. \$_____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Xavier St., Portland OR 97210-2412.

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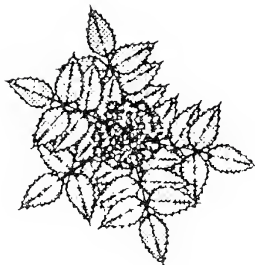
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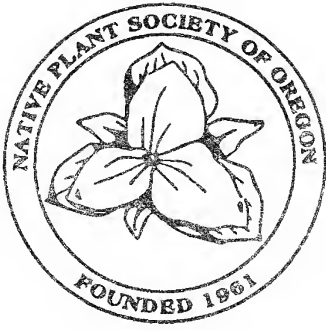
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 or correspond directly with the Officers and Committee Chairs listed on the inside back page.
 Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

Send change of address notices
 and membership requests to:
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 Jan Dobak, Membership Chair
 2584 NW Savier St.
 Portland, OR 97210-2412

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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

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State News

Sept. 10, Sat. **Board Meeting:** Bend. 10 A.M. to 4 P.M. Central Oregon Environmental Center, 16 NW Kansas. Take lunch. Call Bruce Rittenhouse, 503-888-9328, for information.

Spring 1995 **Annual Meeting:** Portland. Details in future Bulletins.

Chapter News

Blue Mountain

Meeting: None in August.

Corvallis

Meeting: No meetings until October.

Emerald

Meeting: No meetings until September.

High Desert

Meeting: No meetings until September.

Mid-Columbia

Aug. 3, Wed. **Meeting:** 6:30 P.M. Potluck dinner and meeting at the Igo home on Dry Creek Rd. We expect a visit from David Douglas. Call 503-478-3293 for directions.

North Coast

Meeting: No regular meeting in August.

Aug. 2, Tues. **Picnic:** 6 P.M. Potluck at Kilchis Park.

Aug. 20, Sat. **Special Program:** 7 P.M. at Cape Meares Community Center, on "Local Valuable Seaweeds" by Gayle Hansen. Call Jaylen Jones, 842-7710, for directions.

Aug. 21, Sun. **Field Trip:** "Local Valuable Seaweeds" led by Gayle Hansen. Limited to ten. Call John Gerke, 503-842-5366, by August 17th, to preregister. Meet at Oceanside State Wayside parking lot at 7 A.M.

Portland

Meeting: None in August.

For all Portland Chapter field trips: You are advised to take lunch, rain gear, and the ten other essentials for safe back country travel: whistle, map, compass, flashlight, first aid kit, pocket knife, sun protection, waterproof matches, emergency blanket and emergency food and clothing. Hiking boots are suggested for all trips. Expect to pay 5 cents a mile for car pooling, and to sign a liability waiver.

Distances are for round trips, and are approximate. Trips meet at 8:30 A.M., at Oregon Department of Transportation, NE 60th and Glisan, **unless otherwise specified.**

Aug. 6, Sat. **Field Trip:** Bird Creek Meadows, Yakima Indian Reservation., led by Katharine Diack. Expect to pay \$5 per car for parking. On the southeast side of Mt. Adams, the trail is high elevation, steep at times, but only 5 mi. round trip. Call 246-6572 for more information. Elevation is 1500 ft., driving distance 218 mi. **Meet at 8 A.M.**

Aug. 14, Sun. **Field Trip:** Estacada Ranger District seed collecting with USFS botanist Gail Masters, 503-630-6861. Gail will lead us to several sites to collect native plant seed, for the exciting work of restoring native habitat. We will have an opportunity to provide input on sites needing restoring. Second meeting place: Estacada Ranger Station, Hwy. 224, 8:45 A.M.

Aug. 20, Sat. **Field Trip:** Zig Zag Ranger District seed collecting with USFS botanist Mollie Sullivan, 503-666-0704, for the exciting work of restoring native habitat. We'll have an opportunity to provide input on sites needing restoring. Second meeting place is Zig Zag Ranger Station, Hwy. 26, at 9 A.M.

Aug. 21, Sun. **Field Trip:** Mt. Adams Ranger Station, Trout Lake, WA. Indoor keying workshop with USFS botanist Caitlin Cray, 503-467-2291. Call by Aug. 12 to register. Take hand lens and key, if you have them. Second meeting place: Mt. Adams Ranger Station in Trout Lake, 9:30 A.M. Driving: 160 mi.

Aug. 27, Sun. **Field Trip:** Clackamas Ranger District seed collecting with USFS botanist Bryce Smith, 503-630-4256. Bryce will lead us on a hunt for seed of squirrel tail grass, Columbia brome, penstemon, red-stem ceanothus and others. Second meeting place is Ripplebrook Ranger Station, Hwy. 224, 9 A.M.

A fall season of field trips is planned. Potential leaders should contact Mary Vogel, 645-1992, with offers of trips

Siskiyou

Meeting: No meetings until September.

Aug. 13, Sat. **Field Trip:** Nabob Ridge-White Mountain Botanical Area. Barbara Mumblo will lead an all day easy to moderate hike to the high Siskiyou crest in the Applegate area. Meet at Star Ranger Station, 9 A.M. Take water and lunch. Call Barbara Mumblo, 899-1812, for more information.

South Coast

Aug. 20, Sat. **Field Trip:** Monique Slipher will lead to the Game Lake Area, to view many serpentine endemic plant species. Meet at the Gold Beach Ranger District, 9 A.M. For information call Bruce Rittenhouse, 888-9328.

Umpqua Valley

Meeting: No meeting in August.

Aug. 13, Sat. **Field Trip:** To Timpanogas Lake in the Willamette National Forest. Meet at the BLM parking lot at 7:15 A.M., for car pooling, with 7:30 A.M. departure. Call Mildred Thiele, 673-5397, for more information.

Willamette Valley

Officers Newly elected officers are: Mark Quistad, president; Tom Jenkins, vice president; Claire Hibler, secretary; Don Roberts, treasurer.

Aug. 6-7
Sat. - Sun. **Field Trip:** Three Creeks Lake area on Saturday, easy for easy hike led by Clint Urey. Leave S. Salem K-Mart parking lot, Mission St., 8 A.M., for 11 A.M. meeting at Three Creek Meadow (horse camp), about 15 mi. ssw of Sisters. Tam McArthur Rim hike on Sunday, led by George and Harriett Schoppert. Steep hike for first half mile. Meet at 9 A.M., Three Creeks Lake store, about 16 mi. ssw of Sisters. Call Clint Urey, 393-0886, or the Schopperts, 859-2613, for information.

Aug. 15, Mon. **Meeting:** 7 P.M. United Methodist Church, 600 State St. NE, Salem. Mark Quistad will talk on the status of "Flower Power" in Oregon, by using Roslyn Hill's garden on Alberta in Portland as an example.

Sept. 10, Sat. **Field Trip:** Olallie Meadows Lake, in high Cascades. Gentians and other high mountain flora are of interest. Call Barbara and Glenn Halliday, trip leaders, 503-371-1025, for more information.

Wm. Cusick

Meeting: No meetings until September.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

We Welcome New Members Who Joined From 4/18/94 to 7/9/94

Blue Mountain

Horne, Amy, DeForest, Christopher
Corvallis

Anderson, Jon, Florence
Bolte, John, Elizabeth
Greenlee, Jack

Emerald

Biesecker, Denis
Dorris, Michael E.
Harvey, Tanya
Hornick, Rik
Pearl, Christopher A
Pryor, Karl

High Desert

Dobell, Judy
Peterson, Jim
Rooper, William R.
Sandberg, Robert
Smith, Phyllis

Mid-Columbia

Laub, Heather

North Coast

Bartl, Rainmar
Eid, Nancy
Maret, Mary P.
Porter, Louise

Portland

Bailey, David
Burrell, Galen
Conant & Conant Booksellers
Dostert, Hans
Edwards, Dixie, Scott
Fox, Brenda S.
Jahns, Ursula
Kahle, Wendy, Boles, Stan
Krueger, Mark, Simon, Marti
Larkin, GERALYN
Masters, Gale A.
Meck, Bill, Ella
Miller, Joanne
Pacosa, Frank
Wade, Jessica
White, Dee

Siskiyou

Freeman, Dan
Tapley, Mark

Umpqua Valley

Rosso, Abbey, Powell, Mark

Willamette Valley

Allardale, Melanie
Harper, Heidi
Money, Elma
Primbs, K.C.
Purnell, William E. Jr.
Seton, Edme R.
Yungen, Walter A.

William Cusick

Geer, Susan
Schoenfelder, Tim

NPSO Items For Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (503-389-6981). Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu, for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett. \$1 each; minimum order five.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one by Valerie Sloane. They are printed on pastel parchment-style paper with matching envelopes. Sold through NPSO chapters, they cost \$4 per packet. Contact Lisa Croft, 699 W 2nd, Prineville, OR 97754 (503-447-5270).

NPSO T-Shirts are available in various colors and designs, and are sold through NPSO chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 652 W 10th St., #1, Eugene, OR 97402 (503-485-1868). \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory lists names, addresses and telephone numbers of members, as of April, 1993. Available from Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412. \$2 each.

The Common Names of Oregon Plants Two Dozen Worts

One of the pleasures one gets from studying botany is the ability to identify plants by their correct names. Names, whether "scientific" Latin ones or less sophisticated "common names," are only the arbitrary labels we humans attach to plants. Still, we intuitively feel that to name a plant is to connect with it in a personal way (as we feel when addressing a friend by his or her given name). As a teacher and professional botanist, I tend to deal primarily with scientific names; yet, I appreciate the fact that common names are often quite useful, and -- for many people -- easier to learn and remember than Latin names.

The English common names of plants take many forms; some are quite distinctive and appropriate (e.g. waterlily, milkweed, monkey-flower), while others are quaint and unfamiliar to the modern ear (e.g. thoroughwort, henbane, eyebright). Many of the latter are antiquated names passed down to us from the folklore of prescientific European herbalists, who believed that the appearance of plants is a clue to their medicinal uses (the leaf of *hepatica*, for example, is shaped like the human liver, so concoctions of the plant are a treatment for liver diseases). Tracing the origins and meanings of these archaic names is a fascinating study in its own right. One class of such names is the subject of this article and plant puzzle.

There are numerous common names that end with the suffix "wort," like thoroughwort, mentioned above. I recently checked the dictionary definition of "wort" and found that it is Middle English and is derived from the Old English "wyr̥t," meaning root, herb or plant (the German word for root, *Wurzel*, is obviously related to this). Wort thus is defined as "an herbaceous plant." It occurred to me that readers of the NPSO Bulletin might enjoy a botanical puzzle, in which they would have to match a list of common names ending in "wort" with the appropriate Latin generic names Thoroughwort, for example, matches with the genera *Brickellia* and *Eupatorium* of family Compositae. In the following list of generic names (species, in a few cases), put in the blank the number of the common wort-name from the second list. Answers will be given in the next issue of the Bulletin.

Ken Chambers
Corvallis Chapter

<i>Arenaria</i> _____	1. Bladderwort
<i>Artemisia ludoviciana</i> _____	2. Butterwort
<i>Botrychium lunaria</i> _____	3. Figwort
<i>Cardamine (Dentaria)</i> _____	4. Hornwort
<i>Ceratophyllum</i> _____	5. Liverwort
<i>Elatine</i> _____	6. Lousewort
<i>Hypericum</i> _____	7. Moneywort
<i>Isoetes</i> _____	8. Moonwort
<i>Lapsana</i> _____	9. Mudwort
<i>Limosella</i> _____	10. Mugwort
<i>Lysimachia nummularia</i> _____	11. Nipplewort
<i>Marchantia</i> _____	12. Pearlwort
<i>Marsilea</i> _____	13. Pepperwort
<i>Pedicularis</i> _____	14. Pillwort
<i>Pilularia</i> _____	15. Quillwort
<i>Pinguicula</i> _____	16. Ragwort
<i>Sagina</i> _____	17. St. Johns-wort
<i>Salicornia</i> _____	18. Saltwort
<i>Saponaria</i> _____	19. Sandwort
<i>Scrophularia</i> _____	20. Soapwort
<i>Senecio</i> _____	21. Starwort
<i>Stachys</i> _____	22. Toothwort
<i>Stellaria</i> _____	23. Waterwort
<i>Utricularia</i> _____	24. Woundwort

Mt. Hood National Forest Field Trip

Caitlin Cray will lead 3 mi. hike through subalpine meadows and forest. Meet at Hood River Ranger Station, 10 A.M., or High Prairie Trailhead, 10:30, Sat., Aug. 27. Limit of 12 persons. Call Caitlin, 503-467-2291, to preregister.

Book Review

Plants of Coastal British Columbia, including Washington, Oregon and Alaska. Compiled and edited by Jim Pojar and Andy MacKinnon. 1994. British Columbia Ministry of Forests and Lone Pine Publishing, #180 16149 Redmond Way, Redmond, Washington 98052. 527 p. \$19.95.

Plants of Coastal British Columbia is one of the best plant guides for the lay person ever published in our area. Jim Pojar and Andy MacKinnon from the B.C. Forest Service have compiled a very effective field guide, with contributions by ten local authors. The book covers the "northern Pacific coastal region," which stretches 17 degrees of latitude from Cook Inlet in Alaska south to Eugene, Oregon, including the Olympic Mountains, the coast ranges and the Cascades. Almost 800 plant species are described and pictured in 1,100 photographs and 1,000 drawings. The one-half and full page descriptions are concise and use non-technical language. Trees, shrubs, wildflowers, aquatic plants, grasses, ferns, mosses and lichens are covered in equal detail.

What makes the book unique are the "extra touches" and large quantity of information packed into a small space. Each entry contains information on the plant's general appearance, leaves, flowers, fruit and ecology. In addition, a "notes" section provides descriptions of related species that are not pictured, synonymy, Native American uses and names, derivations of the Latin names, and other interesting tidbits. A tiny but effective range map is included for each entry, as are photographs and drawings of flowers, habit and diagnostic features. Dichotomous keys precede each family section and are also provided for especially difficult genera. Many of the keys are illustrated in the margins with line drawings. A comparative table helps distinguish ten species of *Vaccinium*, and collections of leaf profiles that show the obvious differences between related taxa are scattered liberally throughout the text.

The introduction covers a variety of interesting topics, from botanical to cultural. Sections for large families and other plant groupings make up the book's core (even some sedges are included!) and an incompletely illustrated glossary is included at the end. Some of the book's shortcomings might only be an issue for the professional botanist. For example, family names are provided only for the largest families; species in small families are grouped into catch-all sections entitled "other

families," "aquatics" and "odd-balls," without indicating their family affiliations anywhere in the text. The term "habitat" is inappropriately replaced with "ecology," perhaps to attract the popular user. The treatment of synonymy is weak and I found a few illustration errors that are too minor to mention (but see page 211).

This is just the kind of book I would like to own if I were learning a new flora. Most common species are shown and their relatives are also mentioned. The diverse manner in which the species are illustrated, through photographs, drawings, descriptions, comparative tables, keys and interesting notes, places this field guide among the best. Don't let the emphasis on British Columbia in the title fool you. This is a powerful asset for any botanist interested in the flora of the Pacific Northwest west of the Cascades. The book can be ordered directly from Lone Pine Publishing by calling 1-800-661-9017.

Tom Kaye
Corvallis Chapter

Rare Serpentine Plants of the Siskiyou's

The Native Plant Society of Oregon is participating in a Challenge Cost Share project, sponsored by the Siskiyou National Forest, to produce a rare plant poster of endemic species from the Siskiyou Mountains/Klamath Province, that occur in serpentine and bog habitats. Fifteen other partners have also helped the fund this poster, which is now at the printers.

The rare plant poster will:

- a) help educate the public about the significance of the rare plant resource that exists in the Siskiyou and Klamath Mountains (one of the most diverse and endemic areas in the United States)
- b) instruct amateur naturalists, non-biologists and field-going natural resource professionals in the identification of these species, in order to obtain more sightings of rare plant populations
- c) encourage an appreciation for rare plants and the biological diversity of serpentine and bog habitats, especially in young people.

The full-color poster will be made available to schools, libraries, land agency field offices, and other interested groups. Each of the cooperating groups will be receiving copies in early August. It is estimated that the NPSO and its Siskiyou Chapter will each get 200 posters, for their \$200 dona-

tion. ; another 400 will go directly to schools from NPSO funding.

Paula Fong, the artist, has contributed much time. Other contributors include: the Rogue, Six Rivers and Klamath National Forests, Medford Bureau of Land Management, Nature Conservancy, Siskiyou Audubon Society, Siskiyou Regional Education Project, PNW Natural History Museum, Boise Cascade Timber and Wood Products, Crater Lake Natural History Association for Oregon Caves National Park, Southern Oregon State College, Oregon Department of Fish and Wildlife, Shasta Chapter, California Native Plant Society.

Species featured on the poster include: *Cypripedium californica*, *Darlingtonia californica*, *Poa piperi*, *Fritillaria glauca*, *Hastingsia bracteosa*, *Gentiana setigera*, *Viola primulifolia* ssp. *occidentalis*, *Castilleja miniata* ssp. *elata*, *Pinguicula macrocerus*, *Balsamorhiza sericea*, *Lilium bolanderi*, *Calochortus howellii*, *Senecio hesperius*, *Lewisia leana*, *Lewisia cotyledon* ssp. *purdyi*, *Silene hookeri*, *Arctostaphylos hispidula*, *Sedum laxum* ssp. *heckneri*, *Arabia aculeolata*.

There is a second year proposal (1995) to develop a program package for schools, but it is contingent on funding. This proposal will provide a poster for schoolroom display, and copies of a black-and-white coloring sheet version of the poster. A slide show and narrative will be developed featuring the species in the poster, as well as other plant species that occur in the region. Information on habitat and the Threatened and Endangered Program will be included.

Thank you for supporting this project.

Linda Mullens
Siskiyou National Forest Botanist

Plant Puzzle

Sponsored by the Siskiyou Chapter

Do you recognize this native evergreen tree? The first person to give the correct scientific name will win a prize. Send your guess on a postcard to:

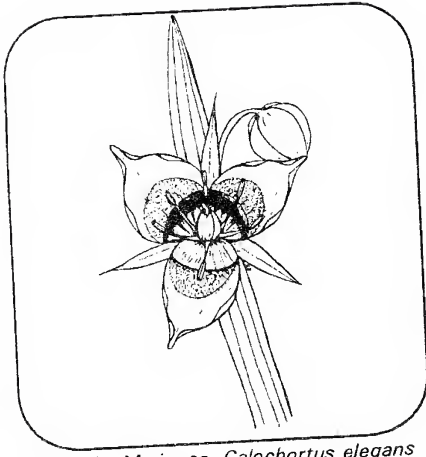
Peter Zika
4230 NW Clubhouse Pl., #1
Corvallis, Oregon 97330



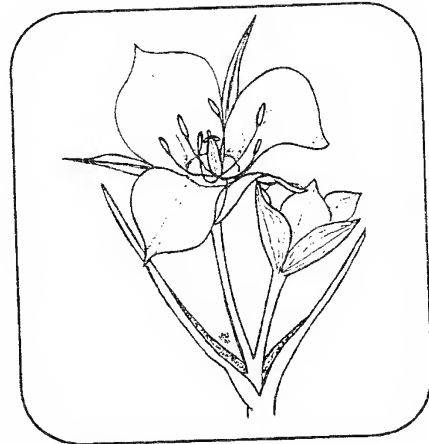
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There was no correct answer to the June puzzle, which was repeated in July, and now, again in August. Let's go botanists!

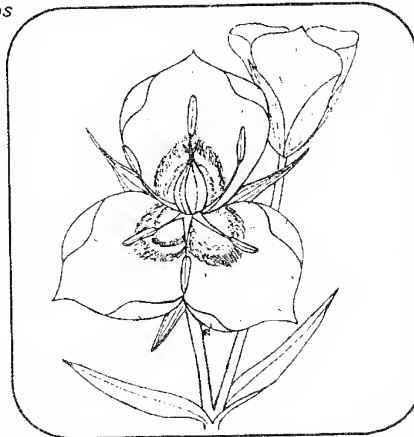
Drawings by Karl Urban



Cat's Ear Mariposa *Calochortus elegans*
CAEL10.PCX



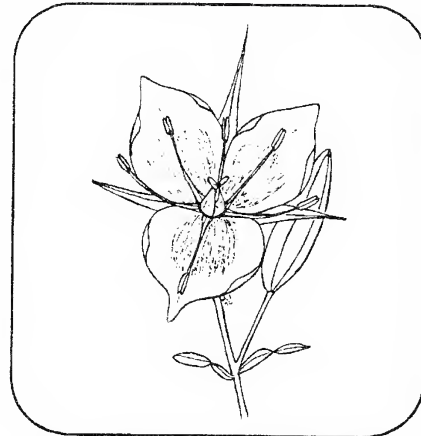
Big Pod Mariposa Lily *Calochortus macrocarpus* CAMA10.PCX



Sego Lily *Calochortus nuttallii*
CANU10.PCX



Weston's Mariposa Lily *Calochortus watsonii* CAWE10.PCX



Mountain Mariposa Lily *Calochortus eurycarpus* CAEU10.PCX

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HIGH DESERT (Bend) Cindi O'Neil. 22100 Sweetgrass Dr, Bend 97701; 389-3085
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Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

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Chapter (if known) _____

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If so, please write your old address here:

Please make checks for dues and contributions payable to:
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Jean Davis Memorial Scholarship Fund. \$ _____

Leighton Ho Memorial Field Botany Award Fund. \$ _____

Rare and Endangered Plant Fund. \$ _____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

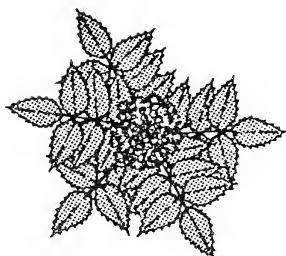
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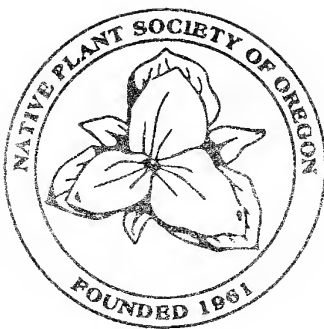
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 General Business Address: P. O. Box 902, Eugene, OR 97440
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 Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

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 Jan Dobak, Membership Chair
 2584 NW Savier St.
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Bulletin of the Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 27 NUMBER 9

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State News

Sept. 10, Sat. **Board Meeting:** Bend, 10 A.M. to 4 P.M. Central Oregon Environmental Center, 16 NW Kansas. Take lunch. Call Bruce Rittenhouse, 503-888-9328, for information.

Spring 1995 **Annual Meeting:** Portland. Details in future Bulletins.

Chapter News

Blue Mountain

Meeting: None in September.

Corvallis

Meeting: None in September.

Emerald

Sept. 19, Mon. **Meeting:** 7 P.M. Dr. Ed Alverson will speak about protecting and restoring Eugene's natural areas. Directions from downtown Eugene: Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E). Go right (W) on Crest 4 blocks, , turn right into Morse Ranch parking lot.

High Desert

Sept. 27, Tues. **Meeting:** 7 P.M. at Stu Garrett's home, 21663 Paloma Dr. Pot luck supper to decide fall/winter activities. Call Stu, 389-6981, for questions.

Oct. 25, Tues. **Meeting:** 7 P.M. at Central Oregon Environmental Center, 16 NW Kansas, Bend. A Nature Conservancy ecologist will talk about prescribed fire and fire ecology at the Lawrence Memorial Grassland Preserve. Call Cindi O'Neil, 389-3085, for questions.

Mid-Columbia

Sept. 7, Wed. **Meeting:** 7:30 P.M. Mosier School. John Buckhouse from Oregon State University will speak about poisonous plants.

North Coast

Sept. 27, Tues. **Meeting:** 7 P.M. YMCA, Tillamook. We will look at the native plant library, that we have been accumulating.

Portland

Portland Chapter field trips: Please take lunch, rain gear and the rest of the ten essentials for safe back country travel: whistle, map, compass, flashlight, first aid kit, pocket knife, sun protection waterproof matches, emergency blanket, emergency food and clothing. Be prepared to pay up to five cents to car pool. Leaders will require all participants to sign a liability waiver.

Distances are for round trips. **Meet at 8 A.M., Oregon Dept. of Transportation, NE 60th and Glisan, to car pool, unless otherwise indicated.**

Sept. 10, Sat. **Field Trip:** Sandy River/Eclectic Institute herbal medicines field trip, led by Eleanor Milner (herbalist from Sandy), 668-6730, and Ed Alstadt, N.D. (founder of Eclectic Institute, pending confirmation). Short, but informative hike along the Sandy River and the Eclectic herb farm to learn some healing properties of our native plants.

Sept. 13, Tues. **Meeting:** 7 P.M. First Methodist Church, 1838 Sw Jefferson St., Portland. Professor Aaron Liston, Herbarium Director, Oregon State University, will present a program on "The Oregon State University Herbarium: Past, Present and Future."

Sept. 18, Sun. **Field Trip:** Zig Zag Ranger District. Car caravan, with short walks, with U.S.F.S. Special Forest Products officer, John Davis, 666-0704 (Portland #) or 622-3191. Learn the why's and wherefore's of what's on the landscape. Discuss issues of preservation management, sustainability, old growth, treaty rights, etc.

Sept. 24, Sat. **Field Trip:** Opal Creek Ancient Forest Preserve, led by Mary Vogel, 645-1992. **Because of vehicle limitations, trip limited to first 10, who sign up by Sept. 22.** Mary will focus on both natural and cultural history, ancient forest ecology and the ethnobotany of the plants on this tour to 1,000 year old cedars. Hiking 5 mi., elev. 500 ft., driving 180 mi.

Oct. 8, Sat. **Field Trip:** Mt. Hood Meadows service trip to help restore a heavily impacted area, with Susan Nugent, U.S.F.S. botanist, Hood River Ranger District, 352-6002. No strenuous hiking, but digging and plugging will give you exercise. Take gloves, U.S.F.S. will supply tools. Second meeting place is Mt. Hood Meadows Ski Area parking lot, at 10 to 10:15 A.M.

Oct. 15, Sat. **Field Trip:** 2-4 P.M. Native plant landscape tour of suburban yard in Aloha, with Mike McKeag and Kathleen McAllister, 642-3965. (Since moving into their new house, Mike and Kathleen have the last three years going native, while their neighbors have planted lawns. Discuss techniques, issues and designs, and come away with some free red fescue. Their landscape architect, Gretchen Vadny, will also be on hand. **Meet at Newport Bay parking lot, 185th and Sunset Highway, at 2 P.M., to car pool.** Call Mike to register. Limited to ten persons.

- Oct. 16, Sun. **Field Trip:** Mirror Lake (tentative choice) with U.S.F.S. pathologist, Diane Hildebrand, 326-6697, to discuss some of the pathologies that attack our native trees, shrubs and plants. See next Bulletin for further details.

Siskiyou

- Sept. 15, Thurs. **Meeting:** Welcome back meeting and potluck. 6 P.M. Lithia Park, across the creek from the upper duck pond. Take plates, silverware and something to share. 7:30 P.M. meeting, room 171, Science Building, SOSC. Take five of your favorite slides to the potluck (they need not be new) and we will get them ready before the meeting.

South Coast

For information, call Paul Bakke, 439-7234.

Umpqua Valley

- Sept. 8, Thurs. **Meeting:** 7 P.M., room 310, Douglas County Courthouse. For more information, call 672-5903.
- Sept. 10, Sat. **Field Trip:** Fish Creek in the Rogue-Umpqua Wilderness. Meet at BLM parking lot 777 NW Garden Valley Blvd., for car pooling, with 7:30 A.M. departure. Call Richard Sommer, 673-3709, for more information.

Willamette Valley

- Sept. 10, Sat. **Field Trip:** Olallie Meadows Lake, in high Cascades. Gentians and other high mountain flora are of interest. There may be good fall color. Call trip leaders Barbara and Glenn Halliday, 503-371-1025, for details.
- Sept. 19, Mon. **Meeting:** 7 P.M. United Methodist Church, 600 State St. NE, Salem. Mike Fahey will present "Taking a Look at Seeds Through the Microscope."

Wm. Cusick

Meeting: No meeting in September.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous or hazardous. Participation is at your own risk. Please contact trip leader or chapter representative about difficulty, distance and terrain to be expected. Take water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12, to limit human impact on these fragile areas. Each group using wilderness areas should be no larger than 12.

President's Column

I hope everyone is having a great season viewing our wildflowers. I would like to remind people of the extreme fire danger throughout the state, and to be careful with fire (even though I feel that fire is essential in many of our ecosystems, and that the more that burns the better).

I was told the other day that the Challenge Cost Share the NPSO funded with the Fremont National Forest did not occur. The project was to survey, for Oregon, semaphore grass (*Pleuropogon oregonus*), a Category I species. The reason the Forest Service was unable to spend the money was that no NPSO members volunteered to conduct the survey. I am not sure who is to blame for this; possibly the Forest Service was late in notifying NPSO members of the project; or worse, no members wanted to spend a day or two in the Lakeview area. These are unfortunate circumstances, and I hope that future projects where NPSO volunteers are needed will be successful.

NPSO members should actively participate in these on-the-ground projects. The federal agencies are desperately trying to develop partnerships with groups such as ours. If on-the-ground activities such as weed pulls, special status plant surveys, monitoring, and habitat restoration occur in your area, participate. I would hope, that in any project concerning Oregon's native flora, NPSO would be an important contributor.

Remember, there is still time to see some late-blooming wildflowers (even though they are probably composites), so enjoy the last few months of nice weather.

Bruce Rittenhouse
NPSO President

NPSO Items For Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (503-389-6981). Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu, for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett (see above. \$1 each. Minimum order is five.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one by Valerie Sloane. They are printed on pastel parchment-style paper with matching envelopes. Sold through NPSO chapters, they cost \$4 per packet. Contact Lisa Croft, 699 W 2nd, Prineville, OR 97754 (503-447-5270).

NPSO T-Shirts are available in various colors and designs, and are sold through NPSO chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 652 W 10th St., #1, Eugene, OR 97402 (503-485-1868). \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory lists names, addresses and telephone numbers of members, as of April, 1993. Available from Jan Dobak, 2584 NW Xavier St., Portland, OR 97210-2412. \$2 each.

The Common Names of Oregon Plants II: Animal Parts

In last month's Bulletin, I presented a puzzle involving the common names of some Oregon plant genera, in which the suffix "-wort" (definition: an herbaceous plant) was part of the name. Readers were asked to match the English common name with the Latin scientific one, usually the name of a genus. The article noted that common names take many forms and sometimes have fanciful or archaic origins and meanings. A particular class of names, which seems to me both imaginative and picturesque, involves a supposed resemblance of plants to specific parts of well-known animals. An example is cock's-foot-grass, an alternative name for orchard-grass (*Dactylis glomerata*). Numerous such names exist, and indeed many scientific names for genera are simply translations of animal-part names into Latin. Examples of this are *Mysotis* (literally mouse-ear), a borage; *Lagurus* (literally hare's-tail), a grass; and *Leontodon* (literally lion's-tooth), a kind of dandelion.

One could also mention examples of plant common names in which a whole animal, not just a part of one, is featured. Note, for example, skunk-cabbage (*Lysichiton*), sow-thistle (*Sonchus*), rabbit-brush (*Chrysothamnus*) and bearberry (*Arctostaphylos uva-ursi*). I am excluding such names here, although they might form the basis for a future puzzle.

In the following list of generic or specific Latin names, put in the blank the number of the animal-part common name from the second list. Answers will be given in the next issue of the Bulletin.

Ken Chambers
Corvallis Chapter

<i>Achlys</i> _____	1. Cat's-ear
<i>Alopecurus</i> _____	2. Cat-tail
<i>Antennaria</i> _____	3. Coltsfoot
<i>Antirrhinum majus</i> _____	4. Crane's-bill
<i>Aruncus</i> _____	5. Crowfoot
<i>Calochortus tolmiei</i> ____	6. Deerfoot
<i>Cerastium vulgatum</i> _____	7. Dogtail

<i>Chenopodium</i> _____	8. Dogtooth-violet
<i>Conringia</i> _____	9. Elephant's-head
<i>Crepis</i> _____	10. Fetid adder's-tongue
<i>Cynoglossum</i> _____	11. Foxtail
<i>Cynosurus</i> _____	12. Goatsbeard
<i>Delphinium</i> _____	13. Goosefoot
<i>Dicentra uniflora</i> _____	14. Hare's-ear
<i>Equisetum</i> _____	15. Hawksbeard
<i>Erythronium</i> _____	16. Horsetail
<i>Geranium</i> _____	17. Hound's-tongue
<i>Hippuris</i> _____	18. Kittentails
<i>Hordeum jubatum</i> _____	19. Larkspur
<i>Luetkea</i> _____	20. Lion's-mouth
<i>Myriophyllum</i> _____	21. Mare's-tail
<i>Myosurus</i> _____	22. Mouse-ear chickweed
<i>Pedicularis groenlandica</i> _____	23. Mouse-tail
<i>Petasites</i> _____	24. Mule's-ears
<i>Ranunculus</i> _____	25. Partidgefoot
<i>Scoliopus</i> _____	26. Parrot's-feather
<i>Synthyris missurica</i> _____	27. Pussy-toes
<i>Typha</i> _____	28. Squirrel-tail
<i>Wyethia</i> _____	29. Steer's-head
<i>Xerophyllum</i> _____	30. Turkey-beard

Answers to last month's puzzle, "Two Dozen Worts":

19, 10, 8, 22, 4, 23, 17, 15, 11, 9, 7, 5, 13, 6, 14,
2, 12, 18, 20, 3, 16, 24, 21, 1.

Book Review

Plant Identification Terminology, An Illustrated Glossary. By James G. Harris and Melinda Woolf Harris. 1994. Spring Lake Publishing, P.O. Box 226, Payson, Utah 84651. 198 p. Retail price normally \$17.95. SPECIAL OFFER TO NPSO MEMBERS: \$15.95. POSTAGE PAID.

Ever stumble through your "Flora of the Pacific Northwest" trying to identify a wildflower, only to be baffled by technical language that does not appear to be English? Do phrases like "seeds biseriate" vs. "seeds uniseriate," or "spikes gynaeceandrous, perigynia planoconvex and achenes trigonous" sound (un-) familiar? Or how about "herbage strigulose," "keel obtuse" and "pubescence dolabriform?" These terms and many others are defined and illustrated in this new book, which defines 2,400 taxonomic terms and provides 1,700 illustrations.

The line-drawings are what make this book a truly useful tool to all students of botany, amateur and professional alike. Often a simple illustration is all that it takes to convey the meaning of a technical term. Although our local floras have glossaries that define some of the terms they use, these glossaries are incomplete, lack drawings, and, worst of all, use additional technical terms in their definitions that send one on a tedious journey to another part of the glossary. In contrast, "Plant Identification Terminology" is very complete (I haven't stumped it yet), puts illustrations where they are needed, and uses common language where possible. The drawings vary in detail from simple diagrams to carefully-stippled artistic renditions. They include cross-sections, perspectives, top and side views, microscopic enlargements, etc., often combined to fully explain a single term. The book is small enough to take into the field as a companion to your favorite flora.

It is arranged in two sections. Part One, "Illustrated Glossary," is a kind of general alphabetical listing of botanical terms and represents the core of the book. Part Two, "Specific Terminology," is divided into subsections for various plant components, including roots, stems, leaves, surfaces, inflorescences, flowers and fruits. Terms are listed here alphabetically *and* in common groups to show subtle (and obvious) differences in meaning. For example, forty different inflorescence types are illustrated on three adjacent pages, making it easy to see the difference between a corymb and an umbel, or between a spike and a spikelet.

There are even dichotomous keys to types of leaf divisions, leaf margins, inflorescences, surfaces and fruits, to help the user of a flora what shape or type of plant part they have. One problem with separating the book into these two parts is that many words included in Part One should also be defined and illustrated in Part Two. Fortunately, the authors chose to list these terms in both places, increasing the size of the book somewhat, but also making it far easier to use. Although the definitions of these duplicated terms are identical in both places, the illustrations somewhat differ, so it is prudent to look in both parts if one illustration leaves you in doubt.

This book should make a welcome addition to the library of a plant enthusiast. If you already own "How to Identify Plants" by H.D. Harrington and L.W. Durell (1957, The Swallow Press) which is still in print, "Plant Identification Terminology" may sound redundant, because both books contain glossaries of illustrated botanical terms. However, the value of "Plant Identification Terminology" is that it defines and illustrates about one thousand more words. In contrast, although Harrington and Durell's book is a bit out of date, it aims to teach the user how to identify plants by explaining how to use a dichotomous key and some general rules of taxonomy, important subjects omitted in this new title. Both books have their strengths, despite a significant overlap in content. They will sit side-by-side on my bookshelf.

To purchase "Plant Identification Terminology" at the NPSO discount price, send a personal check or money order to the above address. Be sure to indicate that you are a member of NPSO.

Tom Kaye
Corvallis Chapter

Free! Free! Free!
Final Offer!
(Also First Offer)

The editor receives a lot of publications, including the plans and proposals of various governmental agencies and private organizations for things to be done to and for Oregon. Some are even useful. He also gets the newsletters of a number of native plant societies. For a telephone call (not entirely free) he is willing, even eager, to send one of these to an interested individual. Inquiries welcome!

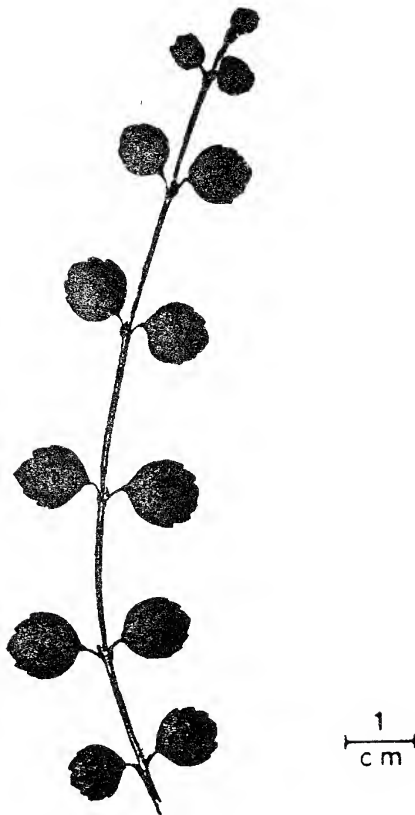
Plant Puzzle

Sponsored by the Siskiyou Chapter

Do you recognize this native wildflower?
The first person to give the correct
scientific name will win a prize.

Send your guess on a postcard to:

Peter Zika
4230 NW Clubhouse Pl., #1
Corvallis, Oregon 97330



Bruce Newhouse of Eugene was the first to solve
the August puzzle, a serrate form of madrone,
Arbutus menziesii.

Ancient Forest Picnic

The Oregon Natural Resources Council and
Friends of Forest Park are sponsoring an ancient
forest picnic at Oxbow County Park, located on
the banks of the Sandy River, on Sunday, Septem-
ber 18, from 11 A.M. to 6 P.M.

Please join ONRC for an all-you-can-eat, whole-
some and hearty vegetarian feast, including Gar-
den Burgers, corn on the cob, salads, watermelon
and vegetables. Full Sale beer will be available for
purchase. Activities include guided hikes through
ancient forests (with a special walk for kids), a
river walk, swimming, volleyball, music and a
raffle.

Ten dollars for adults, five dollars for kids will get
you the entire day's activities and the all-you-can-
eat feast.

ONRC is a coalition of 6,000 individual members
and 45 member organizations, working in aggres-
sive defense of Oregon's wild lands and wild life.
Our programs focus on Oregon's ancient forests,
endangered species, river, high deserts, and coast-
al areas. Friends of Forest Park has a singular mis-
sion; to protect the 5,000 acre Forest Park, the
largest wilderness park in the nation. Proceeds
from the picnic will fund these activities.

For more information, or for directions to Oxbow
Park, contact ONRC at 223-9007, extension 209.

The Mile-a-Minute Weed

Pastures are often thought to be greener somewhere else. But that greenness is not always desirable when seen up close. Witness *Polygonum perfoliatum*, otherwise known as mile-a-minute weed, minute weed, tearthumb, and the plant that ate the South. This last is exactly what it is doing, advancing through the southeastern United States at up to six inches a day, and like some invader from outer space, destroying all plants in its path. It brings to mind a George Price cartoon, in which a man is pinned to his house by a vine, and his wife is saying, "Look out, here it comes again."

Worse, it seems to have come to the United States via Oregon, appearing in a ship's ballast about 1890, according to The New York Times (8/16/94, p. B10). Fortunately, it disappeared from the western United States. We do have our own alien plant invaders, though. And while they may not be as bad as this one, the story serves to remind us of the Pacific Northwest Exotic Pest Plant Council which is attempting to deal with this kind of threat. (Several articles about the Council have appeared in the Bulletin).

At any rate, the Exotic Pest Plant Council's next effort will be turned toward Scot's broom, and there will be a symposium in Eugene on December 1st and 2nd. Those interested should contact Glenn Miller at 503-937-2129.

More Bad News!

On the same page as the story above, an Associated Press story reported that eastern forest trees -- the hardest hit areas being in Ohio, Kentucky, West Virginia and Tennessee -- are dying at three times their natural rate. Pollution, which may be coming from as far away as Dallas, St. Louis and Chicago, is probably the cause.

Guidelines for contributors to the Bulletin

NPSO Bulletin published monthly, as a service to members and the public. All kinds of contributions welcome.

Copy due by the 10th of the month.

CREDITS: Identify author and affiliation. If not original, cite source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints are useable. Some McIntosh graphics can be used. Contact editor for our current needs, or send illustrations with article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, or "The Jepson Manual," where appropriate.

FORMAT: Submissions can be in any form, but at present editor prefers hard copy. Use of a modem is not possible at this time. Editor follows "The Associated Press Stylebook." For further details consult editor.

ORIGINALS: Submissions are not returned, unless requested.

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Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____

State _____ ZIP+4 _____ - _____

Phone _____

Chapter (if known) _____

Is this a change of address?

If so, please write your **old address** here:

Please make checks for dues and contributions payable to:
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*Only for those wishing to subscribe
 but not have "membership" status*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund. \$ _____

Leighton Ho Memorial Field Botany Award Fund. \$ _____

Rare and Endangered Plant Fund. \$ _____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

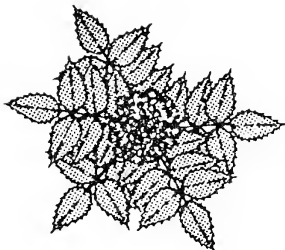
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NATIVE PLANT SOCIETY OF OREGON
General Business Address: P. O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

Send change of address notices
and membership requests to:
Native Plant Society of Oregon
Jan Dobak, Membership Chair
2584 NW Savier St.
Portland, OR 97210-2412

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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 27

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OCTOBER 1994

ISSN 0884-599

Catherine Creek Alert -- Page 126

State News

Jan. 28, Sat. **State Board Meeting:** In Eugene. Details in future Bulletins

Spring 1995 **Annual Meeting:** In Portland. Details in future Bulletins.

Chapter News

Blue Mountain

Meeting: No meeting in October.

Corvallis

Oct. 10, Mon. **Meeting:** 7:30 P.M. Room 2087, Cordley Hall, OSU campus. Tom Kaye will talk on the re-introduction of pink sand verbena.

Emerald

Oct. 24, Mon. **Meeting:** 7 P.M., at Morse Ranch Park. Directions from downtown Eugene: Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E). Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot. Chris Orsinger, president of the Friends of Buford Park/Mt. Pisgah, will give a talk and slide show on native plant restoration, inventory and mapping at Buford Park/Mt. Pisgah. He will also present future management plans, including land acquisition and riparian restoration for the complex of lands at the confluence of the coast and middle forks of the Willamette River.

High Desert

Oct. 25, Tues. **Meeting:** 7 P.M. at Central Oregon Environmental Center, 16 Nw Kansas, Bend. A Nature Conservancy ecologist will talk about prescribed fire and fire ecology at the Lawrence Memorial Grassland Preserve. Call Cindi O'Neil, 389-3085 for questions.

Mid-Columbia

- Oct. 5, Wed. **Meeting:** 7:30 P.M. at Mosier School. We are pleased to have Keith Karroly, botany professor at Reed College, who will present a program on plant mating systems in lupines, meadowrues and glacier-lilies.
- Nov. 2, Wed. **Meeting:** 7:30 P.M. at Mosier School. Karen Sturgeon, botany professor at Linfield College presents: "Church bells, cow bells and harebells; botanizing in the Swiss Alps."

North Coast

- Oct. 25, Tues. **Meeting:** 7 P.M. Room 5, Nehalem Bay Center, 36155 9th St., Nehalem. Planning session for field trips, programs and projects for the coming year.

Portland

- Oct. 8, Sat. **Field Trip:** Mt. Hood Meadows, to help restore heavily impacted area, with USFS botanist, Susan Nugent, 352-6002. No strenuous hiking, but digging and plugging will give exercise. Take gloves. Tools supplied. Meet at ODOT, NE 60th & Glisan, 8 A.M. 2nd meeting place, Mt. Hood Meadows Ski Area parking lot, 10 to 10:15 A.M.
- Oct. 11, Tues. **Meeting:** 7 P.M. First Methodist Church, 1838 SW Jefferson St., Portland. Nancy Fredricks will present a program called "Plants and Fungi in Late Successional and Old Growth Forests; How the President's Plan Will Address Them." Nancy contributed to this part of the president's plan and will provide an authoritative view of how the plan should work. (The room will open at 6:30 P.M. for socializing.)
- Oct. 15, Sat. **Field Trip:** 2-4 P.M. Native plant landscape tour of suburban yard in Aloha, with Mike McKeag and Kathleen McAllister, 642-3965. (Since moving into their new house, Mike and Kathleen have spent the last three years going native, while their neighbors have planted lawns. Discuss techniques, issues and designs and come away with some free red fescue. Their landscape architect, Gretchen Vadny, will also be on hand. **Meet at Newport Bay parking lot, 185th and Sunset Highway, at 2 P.M.,** to car pool. Call Mike to register. Limited to ten persons.
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Siskiyou

- Oct. 20, Thurs. **Meeting:** 7:30 P.M., room 171, Science Building, SOSC, Ashland. Dr. David Wagner presents "Wagner's Worts -- liverworts and moonworts -- botanical explorations -- slides and specimens." More attention is being given to these species at present, since being listed in the Record of Decision for the "President's Plan" for forest management.

South Coast

Call Paul Bakke, 439-7234, for information on activities.

Umpqua Valley

- Oct. 13, Thurs. **Meeting:** 7 P.M., room 310, Douglas County Courthouse. Please bring slides and/or NPSO Bulletin

stories about your summer activities. Call 672-5903, for information.

- Oct. 15, Sat. **Work Day:** 8 A.M., BLM office, 777 NW Garden Valley Blvd. A short work day to set stakes and place plaques to identify trees, shrubs and other plants in the BLM yard. Call Russ Holmes, 672-4635, for information. Shouldn't take more than 2 hours
- Oct. 29, Sat. **Field Trip:** To Mare's Eggs Springs, near Fort Klamath, to see the rare Nostoc algae. If possible, we also plan to visit a rock formation called Football Scarp. Jack Stubbs and Jack Hausotter will co-lead. Meet at BLM parking lot, 777 NW Garden Valley Blvd., for car pooling. 7:30 A.M. departure. Call 672-5903, for information.

Willamette Valley

- Oct. 17, Mon. **Meeting:** 7 P.M. United Methodist Church, 600 State St. NE, Salem. Glenn and Barbara Halliday will give slide presentation of a wildflower tour of southeastern Oregon.

Wm. Cusick

- Oct. 25, Tues. **Meeting:** Opening meeting of the winter season. Volleyball at Birnie Park, 5:30 P.M., followed by a potluck supper at the La Grande Forest Sciences Lab., Gekeler and C Avenue. There will be slide show on a topic to be announced. Call Bob Ottersberg, 963-6043, for more information.
- Oct. 29, Sat. **Fun Work Party:** 1 P.M. Gangloss Park. Nature trail/work party/potluck picnic. For more information call Bob Ottersberg, 963-6043.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public.
All kinds of contributions welcome. **Copy due by the 10th of the month.**

CREDITS: Identify author and affiliation. If not original, cite source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints are useable.
Some McIntosh graphics can be used. Contact editor for our current needs,
or send illustrations with article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock,
or "The Jepson Manual," where appropriate.

FORMAT: Submissions can be in any form, but at present editor prefers hard copy. Use of a modem is not possible at this time. Editor follows "The Associated Press Stylebook."

For further details consult editor.

ORIGINALS: Submissions are not returned, unless requested.

President's Column

A few comments about the election next month. Ballot measure 14 will add operating and reclamation requirements to chemical mining, ban chemical releases into the environment, require backfilling of open pits. This ballot measure is targeted primarily at cyanide leach gold mining. It is sponsored by STOP'M (Stop Toxic Open Pit Mines). Currently, Oregon is the only western state not yet plagued by open pit cyanide leach gold mining. This process removes large quantities of rock which contains tiny flecks of gold. The gold is leached out of the rock with cyanide. Following the mining, all that typically remains is a large open pit with a tailings pond laced with cyanide. The mining interests say this measure will make it unprofitable to operate open pit mines.

Many areas in southeast Oregon already have existing claims, and according to Gary Brown, from STOP'M in Ontario, many of these claims, if mining occurs, would impact sensitive species. Some of these claims are apparently near Succor Creek. Gary adds that the USGS feels there is a 90% likelihood of seven or eight open pit gold mines occurring in the near future. Many claimants of these large gold mines are foreign companies, having no interest in reclamation following the mining, leaving the clean-up costs to U.S. taxpayers. I urge all NPSO members to vote YES on this measure.

In this month's Bulletin you will see a letter to Denny Smith, in reply to his comments about Siskiyou National Forest Botanist Linda Mullens' efforts to protect sensitive plants during wildfires this past summer. Mullens, and the forest archaeologist were guiding a bulldozer to avoid rare plants and some historic cabin sites, so that a backfire could be set which would prevent the fire from entering the Kalmiopsis Wilderness. Smith, who felt the Forest Service was more concerned about the plants, said the Endangered Species Act is "out of whack" and they "should have run the guy over." Earlier, he had made comments about "insignificant species" which receive more consideration than people, but felt that it is okay to set aside areas for gorillas (Oregon having so many). I am not going to make any endorsement for governor. But, do we want someone who thinks like this as our governor? I'll let you decide.

Finally, on a positive note, I hope everyone had an enjoyable summer, and had an opportunity to see

Oregon's native plants. And remember, spring is just around the corner (at least here on the south coast).

Bruce Rittenhouse
NPSO President

August 20, 1994

Denny Smith
Oregon Gubernatorial Candidate
4937 Indian School Road NE
Salem, OR 97305

Dear Mr. Smith:

The Native Plant Society of Oregon (NPSO) would like to respond to your comments concerning Linda Mullens' efforts to protect sensitive plant species during the recent fires on the Siskiyou National Forest. We are a 33-year old nonprofit organization composed of nearly 1,000 amateur and professional botanists, "dedicated to the enjoyment, conservation and study of Oregon's native vegetation." The NPSO was instrumental in establishing the Oregon Endangered Species Act which passed both the House and Senate unanimously. We were appalled by your comments and feel they were inappropriate for someone seeking the governorship of Oregon. Your comments insulted Forest Service employees, NPSO members, and other who are concerned about Oregon's natural resources.

Employees of the Siskiyou National Forest have shown tremendous professionalism in their decision to allow a botanist and an archaeologist to work with the bulldozer operator during the recent Mendenhall fires. Their dedication to the conservation of unique natural resources is refreshing.

Botanist Linda Mullens is a highly regarded botanist by her peers and NPSO members alike, and her efforts may have actually helped prevent the future listing of seven sensitive plant species under the Endangered Species Act. The policy of federal land management agencies towards sensitive species is "not to contribute to the need to list." Therefore, this type of pro-active work should be rewarded, not chastised. Currently, only four plant species in Oregon are afforded protection under the Endangered Species Act, and none are known to occur in the area of the fires. We support the conservation of all plant species and it is unfortunate that some of these have to become listed.

Your personal judgements on "insignificant species" also need addressing. This shows your lack of knowledge on the importance of protecting biodiversity. Try explaining "insignificant species" to an ovarian cancer patient who was cured by taxol, a chemical derived from Pacific yew, which, ironically, was once thought of as a "trash tree." Currently, pharmaceutical and other private companies are investing millions of dollars into the research and development of medicines derived from "insignificant species." Maybe in the next 20 years another "insignificant species," such as a fungus, insect or plant may be the cure of some disease which saves human lives.

The fundamental reason why the Endangered Species Act was created is this lack of understanding the importance of maintaining ecosystems and biodiversity which are perpetuated by comments like yours. The original authors of the Endangered Species Act had long term natural resource conservation in mind. Federal land management is very complex, and inflammatory remarks, such as these, only create an adversarial atmosphere. It is hoped, that if you are elected governor, you will try to seek to understand the issues prior to making comments.

Sincerely,

Bruce Rittenhouse,
President, Native Plant Society of Oregon

Copies of this letter have been sent to the following newspapers: Medford Mail Tribune, Eugene Register-Guard, Oregonian.

We Welcome New Members Who Joined From 7/10 to 9/5/94

Corvallis

Chris Hale Miller
Reed Noss
Patricia S. Shaw
M. Gypsy Skylark

Emerald

Katy Young

High Desert

Joe Carli
Sandy George

Cindy Lee
Marcia J. Lux
Reid Schuller
Stephen Tiktin

North Coast

Kathleen Sayce

Portland

Greg and Cynthia Bentley
Cheeri F. Brinda
Melody Hoener
Kathleen Kollock
Ginny E. Watts Kramer
Dawn L. Sanders
Mary Ann Sweet
Mark and Robin Tilton

Siskiyou

Don Begnoche
Shirley Boyce
Doug Goldenberg
Karen Hyneman and Gerald Starchvick
Randy Smith
Janet Wieberg

South Coast

Greg Enstrom
Chris Cameron
Jamie Fereday

William Cusick

Anne Oveson

Willamette Valley

Rob Kimmich
O.J. Sparrow

Members At Large

Joan Canfield
Joan Frazee
Jill Hackett
Durlin Hickock and Carol Wallace

Many Thanks

The State Membership Committee members wish to express their great appreciation for the donation of a computer to replace their failing one. We thank NPSO members Art and Mary May, for their generosity.

Jan and Dave Dobak

Environmental Laws in Danger

The Bulletin has received, from an NPSO member, a letter, signed by fifteen environmental organizations, about the continuing attack on all environmental laws, including the Endangered Species Act. The letter, slightly abridged, follows:

Dear Environmentalist:

You have never received a letter like this before. This is the first time the combined leadership of the nation's leading environmental groups have sent a single call to action to our combined memberships.

... It is an urgent appeal for citizen action... **we ask you to write to President Clinton, your two senators and your representative in Congress.**

Even during the Reagan/Watt/Gorsuch years, we have never faced such a serious threat to our environmental laws in Congress. Polluters have blocked virtually all our efforts to strengthen environmental laws, but still they are not satisfied. Now, they are mounting an all-out effort to weaken our most important laws.

In a recent briefing of public interest groups in Washington, D.C., Congressman Don Edwards "...as deep a crisis as any in all the years I've spent in Congress." Representative Edwards has served in Congress since 1963.

Many of our most important environmental laws are due to be renewed in Congress: The Clean Water Act, The Safe Drinking Water Act, The Endangered Species Act, Superfund, Wetlands Protection, laws to protect America's public lands and resources, laws to protect you from hazardous wastes and pesticides, laws to protect your health and your environment.

All these laws need to be strengthened. Polls show that the American public wants them to be more effective. But incredibly, Congress is poised to weaken them -- all of them.

The biggest strength of the environmental movement has always been its members and supporters. Yet it is the opponents of the environmental laws who are mounting the biggest and most effective grassroots campaigns in Congress. Congress is

hearing more from special interest groups who profit from pollution and from exploiting public lands and resources than from the majority of Americans who want to end pollution and protect our natural resources. ...

We can turn this around, with your help. We have won battles like this in the past, against seemingly insurmountable odds. We have passed laws like the Clean Air Act and Clean Water Act over the opposition of the biggest and most powerful industrial lobbies in the country. We have protected our public lands and resources against assaults from the oil lobby, the timber lobby and the mining lobby. But we only won those fights when people like you showed your support for clean air, clean water, and protecting America's remaining wildlife and wilderness.

The opponents of strong environmental laws have been effective because they have reduced their arguments to three simple but misleading anti-environmental messages.

"Takings" -- Industry claims that environmental laws take private property unfairly. In reality, they want us to pay them not to pollute our air and water and not to destroy our wildlife and public lands.

"Cost-Benefit and Comparative Risk Analysis" -- Polluters want to force the government to justify the benefits of environmental safeguards in monetary terms. But how can we value in dollars and cents the lives of our children, the health of our ecosystems and our right to breathe?

"Unfunded Federal Mandates" -- Many states and cities want environmental laws to be voluntary, unless the federal government pays for all state and local compliance costs. Doesn't your state and your town have a responsibility to protect the air you breathe and the water you drink?

... These lies are being repeated loud enough and often enough that they are now accepted as truth by your senators and representatives in Washington, D.C. The best way to counter these lies is for the president, your senators and your representatives to hear **directly from you** loud enough and often enough for the real truth to emerge. It is not

enough to tell them you want stronger environmental laws. That alone cannot counter industry's sophisticated lobbying effort. You must tell your elected officials why you oppose the three anti-environmental arguments that industry is using.

... We urge you to fax or mail your letters or postcards immediately. If you don't have time to write to all your elected officials, then write to President Clinton and send copies to Congress. ...

If you want to have greater impact, then contact your representative when he or she is at home during Congressional recess. Let them know -- in person or on the phone -- why you oppose the arguments industry is using to weaken our environmental laws.

We are counting on your support. If millions of us work together, we can win this all-important battle to protect our nation's environment.

Sincerely,

The letter is signed by representatives of: American Oceans Campaign, Center for Marine Conservation, Defenders of Wildlife, Environmental Action Foundation, Friends of the Earth, Greenpeace U.S.A., League of Conservation Voters, National Audubon Society, National Parks and Conservation Association, National Wildlife Federation, Natural Resources Defense Council, Sierra Club, Sierra Club Legal Defense Fund, The Wilderness Society, Zero Population Growth.

Citizen Action Guide: The Bulletin's editor has copies of the Citizen Action Guide that were sent with this letter. He will send a copy to anyone calling. The main goal is to respond to the three arguments listed above that are being made by the polluters, and to send your responses to your senators, your representative and the president. Individually worded letters are always said to be the most effective in campaigns of this kind. Telephone calls are also useful. Any library should be able to supply addresses and phone numbers. Also, see Bulletins of March and June, 1994.

Plants With Scary Names (and a few fungi)

bleedingheart	*****	bloodroot
<i>Boletus satanus</i>	***	boojum tree
California strangler	**	chokecherry
cleavers	***	creeping charlie
daggerpod	**	dead-nettle
deadly nightshade	****	
deadman's foot	****	
***	****	death camas
death cap	*****	
destroying angel**		Devil's dipstick*
Devil's club****		Devil's dragonhead **felonwort
*****		fetid adder's tongue
ghost flower *	hackberry *	king devil *
***	medusa head	madwort
*****		mother-in-law's tongue
old-witch grass *	panic grass *	phantom orchid
poison oak	poison hemlock****	rattlesnake
plantain	*skeleton-weed***	skullcap
snakeweed****	spider plant***	tromp du mort
viper's bugloss	wind witch***	witch hazel
witch's butter*****	*****	wolf's bane*

Happy Halloween

-----Tom Kaye----

Corvallis Chapter

??#@#%&^&*((+))(*&^%\$#@!/?[{}]????

MacFarlane's Four O'clock (*Mirabilis macfarlanei*)

This wildflower, a perennial found in Idaho and Oregon canyonlands, was proposed August 26, 1993, for reclassification to Threatened. MacFarlane's four o'clock is characterized by strikingly large magenta flowers atop stems that have oppositely arranged succulent leaves. IN 1979, when the species was listed as Endangered, only 25 to 30 plants in three colonies were known. Today, thanks to improvements in grazing management, the discovery of 15 additional colonies, and the stable status of these colonies, the species is estimated to number 8,600.

Reprinted from: Endangered Species Technical Bulletin, Vol. XVIII, No. 4 (1993), p. 21.

Catherine Creek Alert

Help the Forest Service Write a Management Plan for the Catherine Creek Natural Area (Columbia River Gorge)

Please Attend the Forest Service Workshop October 8, Hood River, Oregon

Workshop participants will be asked to come up with a "Desired Future Condition" for the Catherine Creek Natural Area. In 1989, the Washington Natural Heritage Program recommended three management objectives for this area of **about twenty five hundred acres**. They were to:

- (1) "maintain the site's natural diversity"
- (2) "improve the condition of plant communities"
- (3) "maintain viable populations of rare plant and animal species."

These objectives best define the "Desired Future Condition." Uses which conflict with these objectives should not be permitted. Two destructive uses -- cattle and motor vehicles -- have been excluded from Catherine Creek by Forest Service decisions. However, other incompatible activities, including horses, mountain bikes, firearm use, and camping remain threats. None of these uses is currently established at Catherine Creek, and it is vital that the Forest Service prevent them from becoming established.

Horses - The Washington Natural Heritage Program lists horseback riding as an incompatible use at Catherine Creek. Horses spread noxious weeds, cause soil disturbance and erosion, trample and eat plants, and cause user conflict with visitors on foot. As of September, 1994, there is no evidence of current or recent horse use in the Catherine Creek Natural Area, and it should not be allowed to get started.

Mountain Bikes - These cause many of the same problems as horses, but to a lesser degree. Since even foot travel may, in the future, need to be limited at Catherine Creek, it would be unwise to allow any vehicle use to get started.

Firearm Use - Shooting the wildlife upsets the natural diversity and balance. Also, hunting and target shooting are threats to human safety and should not be allowed at Catherine Creek, just as they are not allowed at Forest Service camp-

grounds or in state parks.

Please attend the October 8 workshop to oppose horses, wheels and guns at Catherine Creek. Don't miss this chance to strike a blow for wildflowers!!

Time: Saturday, October 8, 9:30 A.M. to 3 P.M.

Place: National Scenic Area office in Hood River. From I-84, take Exit 63 into downtown Hood River. Take first available right, continuing 4 blocks to 7th Street. Turn right on 7th to a large white building with plenty of parking. The workshop will be in the 3rd floor conference room.

Submitted by Russ Jolley
Portland Chapter

MEMORIAL GIFT

Grayce Folsom has given the Native Plant Society of Oregon a gift, in memory of Dr. Lloyd G. Anderson. The Society is most grateful.

Volunteers Needed!

The NPSO State Board is seeking volunteers to serve on the nominating committee for candidates for next spring's election of officers. This is a very important service for our organization. Please consider serving. For more information, call Bruce Rittenhouse, President, Native Plant Society of Oregon. His home number is 888-9328. At work, he can be reached at 756-0100. His address is 550 Fillmore, Coos Bay, OR 97420.

Oregon Artist Features Native Plants

Longtime member of the NPSO, Mary Moffat, again shares her love of our native plants. During October, at Collier House, U of O campus, 1177 E. 13th, Eugene, her artworks will be shown from 8 A.M. to 6 P.M., Monday to Friday. Lunches are served from 11 A.M. to 6 P.M. The opening reception will be on October 7, from 7 to 9 P.M., following the First Friday Gallery Walk.

Mary draws directly from life, often enlarging her drawings many times over, for the final painting. She shows the process from beginning sketch to final product.

Those Wallowing Sedgeheads

Note: The following trip was sponsored in part by a grant from NPSO! Thank you!

The *Carex* Working Group (CWG) quietly and diligently continues to improve and expand recorded information about Oregon's sedges. For the past year or so, this group of dedicated "Sedgeheads" has been studying, teaching, collecting and examining specimens, striving to overcome botanical denial and perigynia paranoia, and working to upgrade the image of the once pooh-poohed genus *Carex*. On August 7th, a core corps of convivial *Carex* commandos caravanned₁ from Corvallis to canvass the NE Oregon countryside for (of course) Carices. The objectives of the trip included adding county sighting and collection records and learning to enjoy life.

From the outset, each of us (the four CWG members on the trip: Keli Kuykendall, Bruce Newhouse, Barbara Wilson and Peter Zika) made it clear that s/he would be in charge, and thereafter everything proceeded smoothly. Leaving Corvallis in the early afternoon resulted in our arrival in the Lostine River valley (on the northern side of the Wallowas) about 11 P.M. After being reminded what a nighttime sky looks like without heavy light pollution, we rapidly tented up in the lights of our BOVINE (Botanical Operations Vehicle In the NE -- an '82 Suburban -- thank you OSU), bedded down, and slept to river music. Monday morning, one CB (coffee/bagels) led to another. CB (*Carex/Botrychium*) Master PZ trained us to use our eyes, nose and knees in the customary fashion of a grape-fern-on-the-brain *Botrychium* stalk stalker. In addition to the three species in the meadow adjacent to our campsite, six other species of these diminutive delights would be added to our list by the end of the trip. We enjoyed the afternoon further up the valley developing a solid but expanding *Carex* list, each of us enthusiastically exhorting embarrassing exclamations upon discovery of a "new" species. And, we glimpsed a northern goshawk!

Our second day led us past Wallowa Lake and up the Mt. Howard gondola. (We polled the gondoliers, but none were Venetian.) Admiring *Lomatium greenmanii*, *Penstemon spatulatus*, and a host of sedges provided us with a full afternoon -- even though we had managed to hike less than 3/4 of a mile from the top of the tram. We viewed some of the Wallowa peaks to the south and west,

the agricultural quilt pattern blanketing the Wallowa River valley to the north, and an impressive smoke plume (and a second, quite unimpressive plume) over the Seven Devils to the east. We caught the last tram home at 5 P.M., dined finely on Enterprise pizza, and returned, satisfied and sated, to our Lostine very base camp. BW religiously tended to pressing business each evening of our trip -- logging collection data and delicately squashing judiciously collected specimens for the OSU Herbarium, or BW's secret fescue laboratory (reputedly, about a mile beneath Corvallis).

On day three, we began by assisting KK with some "meter running" plots. (Although she professes to conducting a somewhat hushed and rather rushed study of *Carex* rhizome morphology, there is a rumor that her releve plots will be the basis of a water ballet for *C. aquatilis* starring *C. nova*, with music by Sister Sedge.) We ran into Marty Stein (a Wallowa-Whitman National Forest ranger district botanist) at the groovy cafe in Enterprise, and arranged an evening rendezvous at camp. Then, we stormed Hurricane Creek. Limestone=calcium=endemics. Great and small *Carex* and *Botrychium* abounded. Beautiful creek Avalanche chutes. Marty, and awesomely-cute offspring Alex, beat us back to camp, and stayed to chat with us around the 'ol' Coleman stove while the light faded. An Idaho State University researcher dropped in to quiz PZ about aquatic plant sites, for an upcoming book. Alex enjoyed watching the small flame of the stove. We heard he had already found his first *Botrychium*, and he seemed intent on finding his second in the big dinner salad bowl (...perhaps...).

All knowing that the unknown Elkhorn Mountains awaited was our only reason for departure on Thursday morning. After a risky, but rewarding railroad track reconnaissance for *Carex cusickii* (William Cusick's name and "unique" handwriting grace many herbarium sheets from the Wallowas), and a few other stops for sedge-food-gas-spam-sedge-bathroom-sedge and what-have-you, we finally met patient CWG activists Danna Lytjen and Nick Otting at their posh summer retreat, the Starkey Guard Station. They took a short break from their riparian studies to lead us on botanical expeditions for the next day and a half. Thursday afternoon we botanized the moist meadows of Grand Ronde Lake, headwaters of the Grande Ronde River and home of spectacular blue clumps of *Gentiana calycosa*. On Friday, Paula Brooks (head botanist of the WWNF) led us to her favorite x-c skiing and botanizing₂ grounds, Hofer Lakes. Beginning at Anthony Lake, we as-

cended to botanical heaven at the rapid botanist's pace of 3/4 of a mile in just under 2 hours, an improvement over Mt. Howard. Our near-exertion was rewarded by the view of Hoffer Lakes and their backdrop of polished granite, and by finding a healthy population of *C. praeceptorum*. After PZ taught us the finer points of distinguishing this rare species from two impostors₃, we gathered data for an ONHP sighting report and headed/hoofted back down. We spent the remains of the day at Anthony Lake, locating a few more *C. praeceptorum*, and gathering a few *Juncus* and *Isoetes* specimens for the herbarium, as well.

Nearly awake, with presses full, we opted for the scenic route home on Saturday, leaving coyote howls, great horned owls and Elkhorns at 6:15 A.M. We broke fasts in a big way in Mt. Vernon, and collected some new data (mostly *C. nudata*) (sorry) along our route. Arrived in Corvallis: 4:30 P.M. For you number nuts, here are the final trip stats: tires flat = 0; plants flat (i.e. pressed specimens) = 110; fish caught in our Wallowa = 0; *Botrychium* spp. seen = 9; *Carex* spp. seen = 37; ONHP sighting reports = 4; perceived mileage = 224,000

Thank you Marty, Paula, Nick and Danna for sharing your favorite plant places with us. The CWG has conducted bot-swats at Crater Lake, in north-central Oregon, the Siskiyou, and the northwest coast of Oregon, in the last 12 months. Catch future CWG escapades in future Bulletins. Contact the CWG at 737-2313 for more info.

Submitted by Bruce Newhouse,
on behalf of the Carex Working Group

1. Not a verb, but nonetheless, useful in this instance.
2. Verbing trouble, again.
3. One of these sedges, he alleges, inhabits edges of ledges, and the other one grows beneath hedges.. (Personally, I doubt this.)

(Editor's note: The editor candidly confesses that he can't claim credit for the curiously concinnated concatenation of consonants conceived by the contributing *Carex* correspondents. Collectively?)

Plant Puzzle

Sponsored by the Siskiyou Chapter

Do you recognize this native shrub? It does not grow east of the Cascades crest. The first person to give the correct scientific name will win a prize.

Send your guess on a postcard to:
Peter Zika, 4230 NW Clubhouse Pl., #1
Corvallis, Oregon 97330



Ray Prag of Williams was the first to solve the September puzzle, twinflower, *Linnaea borealis*.

Announcing the 1994

Oregon Rare Plant Conference

sponsored by the Native Plant Society of Oregon

in cooperation with the Oregon Natural Heritage Program, the Oregon Department of Agriculture,
the US Forest Service, and the Bureau of Land Management

November 4 and 5 1994 in Bend, OR

This every-other year conference is the opportunity for botanists from across the state and from various agencies to assist in updating the listing status of Oregon's rare plant species. Anyone with information relating to Oregon's rare plants is welcome to attend.

Schedule:

Fri Nov 4	11:30 AM	Registration starts (\$10 by mail or at door)
	1:00 PM	Conference starts
	1:20	Update by ODA
	1:40	Update by BLM
	2:00	Update by USFS
	2:20	Listing updates and determinations facilitated by
	to 5:30	ONHP, ODA, USFS, BLM, and/or NPSO
	6:30	Informal social get-together, to be announced
Sat Nov 5	8:30 AM to 5:30 PM	Listing updates with lunchbreak
	5:30 PM	Conference Adjournment

Please send Sue Vrilakas, Heritage Program, 1205 NW 25th, Portland, OR 97210, 229-5078 information on specific taxa that you wish to have considered. A handout will be prepared and available at registration. We will be able to show slides of species during the conference.

Accommodations will be at the attendees' choice. Motel options within two to three miles of COCC include: Red Lion 382-8384, Best Western Woodstone Inn 382-1515, Rainbow Motel 382-1821, Motel West 800-282-5577, and Cimarron Motel 382-7711.

The Conference will be held at the Hitchcock Auditorium in Pioneer Hall at Central Oregon Community College, NW College Way on the west side of Bend on the hill. To get there take Greenwood/Newport about one mile west of downtown Bend and turn north on College Way. Pioneer Hall is .9 miles down on the east side of College Way, just uphill from the bookstore. See map.

You may register ahead by mail and avoid a line or register the morning of the conference. Registration covers conference attendance, light snacks and drinks, and a mailed copy of the updated listing booklet. To register by mail send (by Oct 26) a check for \$10 made out to NPSO to Stu Garrett, 21663 Paloma Dr., Bend, OR 97701. Call Stu for questions: eves after 9 PM: 389-6981 or days 382-2811 ext 267

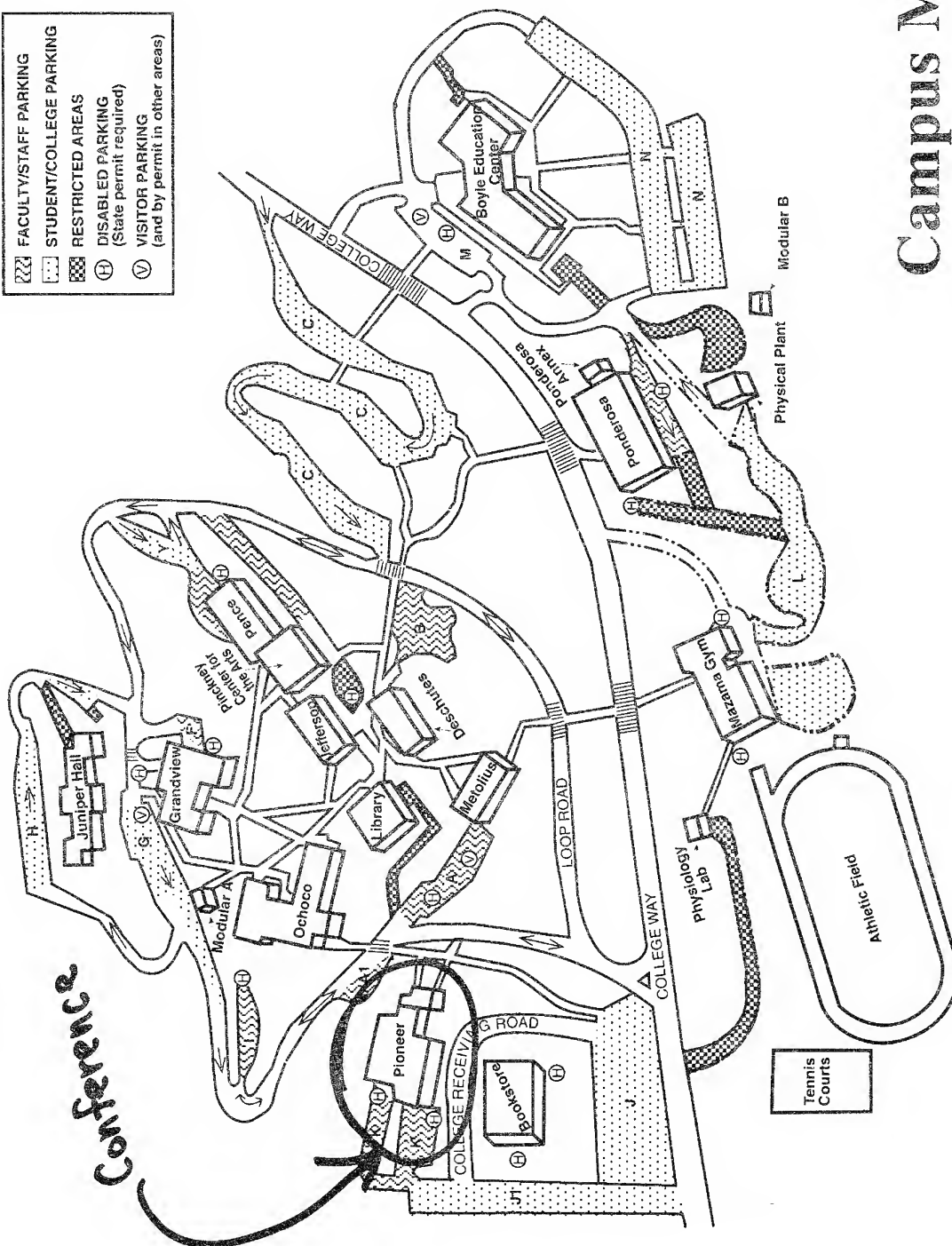
Planned and organized by the High Desert Chapter, Native Plant Society of Oregon

PLEASE NOTE: The success of the Rare Plant Conference depends on participants completing the rare species pre-work. To receive your pre-work packet, send a stamped and self-addressed envelope, with your registration.

Central Oregon Community College

Bend, Oregon 97701-5998 • (503) 383-7700 or 1-800-422-3041 (in Oregon)

- | | |
|--|---|
| | FACULTY/STAFF PARKING |
| | STUDENT/COLLEGE PARKING |
| | RESTRICTED AREAS |
| | DISABLED PARKING
(State permit required) |
| | VISITOR PARKING
(and by permit in other areas) |



Campus Map

STATE OFFICERS

DIRECTORS (to 6/95) Jenny Dimling, Veva Stansell, Nancy Wogen
 DIRECTORS (to 6/96) Jerry Igo, Ethen Perkins, Peter Zika
 PRESIDENT Bruce H. Rittenhouse. 550 Fillmore, Coos Bay 97420-3167; w:756-0100; h:888-9328
 IMMEDIATE PAST PRESIDENT Lisa Croft. 699 W 2nd, Prineville 97754; 447-5270
 VICE PRESIDENT Rhoda Love. 393 Ful Vue Dr, Eugene 97405-2706; 345-6241
 SECRETARY Julie Thiel. 6144 Stonehill Ave. S, Salem 97306; 362-2057
 TREASURER Kari Yanskey. PO Box 64, Ukiah 97880; 427-3063

CHAPTER PRESIDENTS

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 EMERALD (Eugene) Bruce Newhouse. PO Box 902, Eugene 97440; 343-2364
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 WM. CUSICK (La Grande) Bob Ottersberg. PO Box 885, La Grande 97850; 963-4907

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 LEGISLATIVE Esther McEvoy. 3290 Willamette, Corvallis 97333; 754-0893
 MEMBERSHIP Jan Dobak. 2584 NW Savier St, Portland 97210-2412; 248-9242

Budgets and Grants PUBLICATIONS

BULLETIN EDITOR John Robotham. 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
 KALMIOPSIS EDITOR David Kennedy. 8394 Wagner Creek Rd., Talent 97540; 535-6383

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name_____

Address_____

City_____

State_____ ZIP+4_____ -

Phone_____

Chapter (if known)_____

Is this a change of address?

If so, please write your old address here:

Please make checks for dues and contributions payable to:
 NATIVE PLANT SOCIETY OF OREGON

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Jean Davis Memorial Scholarship Fund. \$_____

Leighton Ho Memorial Field Botany Award Fund. \$_____

Rare and Endangered Plant Fund. \$_____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

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NATIVE PLANT SOCIETY OF OREGON

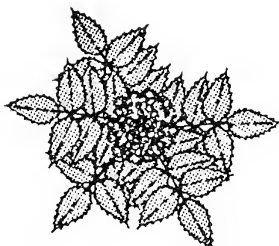
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or correspond directly with the Officers and Committee Chairs listed on the inside back page.

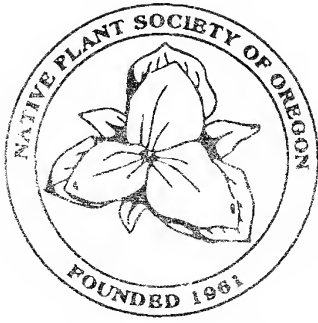
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2584 NW Savier St.
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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 27

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Catherine Creek Management Plan

Nov. 12, Sat. There will be a follow-up workshop on the Forest Service management plan, at the National Scenic Area office in Hood River, starting at 9:30 A.M. Directions and details are in October's Bulletin. **Attendance again is important, to keep the pressure on..**

State News

Jan. 28, Sat. **State Board Meeting:** 10 A.M. in Eugene, at Lane Community College. Details in next Bulletin.

Spring 1995 **Annual Meeting:** In Portland. Details in future Bulletins.

Chapter News

Blue Mountain

Nov. 7, Mon. **Meeting:** 7 P.M. Small Business Development Center, corner of SE 1st and Dorian, Pendleton. Ruth Rouse will show slides of flowers from the Olympic Peninsula, and we will have a short business meeting. Bring ideas for future winter meetings.

Corvallis

Nov. 14, Mon. **Meeting:** 7:30 P.M. Room 2087, Cordley Hall, OSU campus. Dr. Fred Rickson will talk on "Ant plants of the tropics."

Emerald

Nov. 5, Sat. **Field Trip:** Dave Wagner leads a trip, sponsored by the Natural History Society, to Gwynn Creek, in the Coast Range, to look at mosses, liverworts, lichens and ferns. Meet at S. Eugene H.S., 8:30 A.M., returning to Eugene by 5 P.M.

Nov. 21, Mon. **Meeting:** 7 P.M. at Morse Ranch Park. Directions from downtown Eugene: Take

Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves.E). Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot. Dave Wagner reveals the wet world that came before flowering plants, that lingers on beside them. See the amazing spores and the lush and mossy masses they create. Stare with awe at *les primitifs*' raw glory. Examine the cohorts and underpinnings of forest and glade. Call 485-0891, for more information.

High Desert

Meeting: No meeting in November or December. Call Cindi O'Neil, 389-3085, for information.

Mid-Columbia

Nov. 2, Wed. **Meeting:** 7:30 P.M. at Mosier School. Karen Sturgeon, botany professor at Linfield College, presents: "Church bells, cow bells and harebells; botanizing in the Swiss Alps."

Dec. 7, Wed. **Meeting:** 7:30 P.M. at Mosier School. Jerry Gabay will give us a slide show based on his recent travels in Africa.

North Coast

Nov. 29, Tues. **Meeting:** 7 P.M. Tillamook YMCA, 610 Stillwell Ave. Marilyn Sigman, director of the Tillamook Bay National Estuary Project, will present the program.

Portland

Nov. 8, Tues. **Meeting:** 7 P.M. First Methodist Church, 1838 SW Jefferson Street, Portland. Our program will be "A Visit From David Douglas, " a.k.a. Michael Igo. We will be transported back to the days when David Douglas explored the northwest for plants to send back to Europe. (The meeting room will be open at 6:30 P.M. for socializing.)

Field Trip Committee: Next month's Bulletin will announce a field trip committee meeting, to plan chapter field trips for next year. If you enjoyed any of our trips this year, please consider attending to give your input, and/or sign up as leader for a trip or two. It's crucial to help simplify the next field trip v.p.'s job, with leadership and suggestions. Call Mary Vogel, 645-1992, with agenda suggestions.

Siskiyou

Nov. 15, Tues. **Meeting:** 7:30 P.M. Room 171, Science Building, SOSC, Ashland. Dr. Dan Luoma and Dr. Jim Trappe will speak on "The ties that bind fungi and the ecosystem."

Note: This is a different date from the usual meeting.

South Coast

Call Paul Bakke, 439-7234, for information on activities.

Umpqua Valley

Nov. 10, Thurs. **Meeting:** 7 P.M. Room 310 of the Douglas County Courthouse. Lisa Wolf, District Botanist, North Umpqua District, Umpqua National Forest, will be the guest speaker. She will present a program, with slides, on the species composition and unique habitat of the Jackson Creek watershed. Call, Mildred Thiele, 673-5397, for information.

Willamette Valley

Nov. 21, Mon. **Meeting:** 7 P.M. United Methodist Church, 600 State St. NE, Salem. Larry Scofield will present a slide show on native plants.

Wm. Cusick

Call Bob Ottersberg, 963-6043, for information on future activities.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public.
All kinds of contributions welcome. **Copy due by the 10th of the month.**

CREDITS: Identify author and affiliation. If not original, cite source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints are useable.
Some McIntosh graphics can be used. Contact editor for our current needs,
or send illustrations with article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock,
or "The Jepson Manual" where appropriate.

FORMAT: Submissions can be in any form, but at present editor prefers hard copy. Use of a modem is not possible at this time. Editor follows "The Associated Press Stylebook."

For further details consult editor.

ORIGINALS: Submissions are not returned, unless requested.

Summer Intern Reports

The following is the first of five articles in which NPSO conservation biology interns discuss their activities during the 1994 field season. Interns were selected from a pool of about 30 applicants, and worked with scientists from the Oregon Department of Agriculture/OSU Plant Conservation Biology Program in carrying out research relating to threatened and endangered species in the northwest. Project locations ranged from Hell's Canyon to vacant lots in Klamath Falls, and for one participant included a molecular taxonomy laboratory at OSU. Interns were jointly funded by NPSO, state, and federal dollars, and plan to use their experiences in furthering their careers in botany. Thanks again to NPSO for contributing to botanical education.

Bob Meinke, Program Leader

Grover Meets Mothra A Summer As An NPSO Intern

This summer I was one of the five individuals selected to participate in the NPSO/ODA plant conservation biology program. I became interested in the program when I learned that one of the positions was for a person with experience in molecular biology. I was taking a course in molecular genetics at the time and really enjoyed the work I was doing, so I thought that this would be the perfect opportunity to expand my understanding of botany and molecular systematics.

I spent the first week of my internship in Baker County working on demographic monitoring of *Haplopappus radiatus*, the Snake River goldenweed. This composite is endemic to an area about 40 miles south of Baker City and is being threatened by grazing and by competition with introduced weeds. As luck would have it, it rained the first day we were out there, and I had no rain pants. By the time we visited all the sites I was soaked and covered with mud. While waiting for the rain to subside, we decided to visit the site of a lupine that we were to study later in the summer. By the time we finished there it was time to head back to the motel for the night. The next day, however, we would begin work, rain or shine. Our work for the week consisted of counting and mapping all the *H. radiatus* seedlings within the plots. Fortunately, it was a good year for seedling germination, but for us it meant long days kneel-

ing over plots mapping seedlings all day long. At this point, I was thinking to myself, "It's going to be a long summer." Fortunately, the first day was the longest, hardest day I had all summer. It made the rest of the summer look like a piece of cake.

The next week we were off again, but this time we were east of Mt. Hood, near Tygh Valley, working on the Tygh Valley milkvetch, *Astragalus tyghensis*, an endemic along the rim of the White River canyon. The work that week consisted once again of demographic monitoring. Except for the long, nasty hikes up to the canyon rim from the river, and across a massive boulder field, it was a rather easy week. Since the weather was so nice for us that week, we were finally able to camp. I did not own a tent at the time so I borrowed one from some friends. What I didn't realize was that the tent was absolutely huge! Being a four or five person tent, it was much more than I needed for myself. Needless to say, I had plenty of room to roll around. The tent quickly earned the nickname "The Lodge," and was the center of many jokes throughout the season.

Week three was a mixed week. The crew had planned to work on *Horkelia congesta* all week, but we finished ahead of schedule, so I had the opportunity to go down to the Kalmiopsis Wilderness and work with Matt Carlson and Steve Gisler on a study of the mating system of *Kalmiopsis leachiana*. An endemic of the Siskiyou Mountains, *K. leachiana* is the plant for which the Kalmiopsis Wilderness was established and named. Since we had to go from the Kalmiopsis to Glide on this trip, we spent a good part of one day traveling. Our plan was to camp on the way to Glide somewhere, but the only place we could find was an R.V. park. We decided to look for a Forest Service campground, but there were none nearby. It was starting to get late and we were all hungry, so we pulled off to the side of a dirt road and cooked dinner on the tailgate. During the meal, we were visited by some curious locals who thought our meal looked "awfully vegetably."

Our destination for week four was the Imnaha River near Hell's Canyon. The purpose was to search for populations of *Mimulus hymenophyllus* and *Mimulus patulus*, as well as making collections for the OSU herbarium. This trip was a nice change of pace because I had no previous experience with plant taxonomy; this week gave me the opportunity to learn how to key plants (with the help of the rest of the crew, of course). While in the field we had the misfortune of encountering numerous disgusting creatures such as ticks and

black widows. Luckily most of us remained unscathed. I learned a lot this week and look back on it as being one of the best and most educational weeks of the summer.

During week five, Kelly, Crista and April started their internships. We spent the week on the coast working on monitoring and re-introduction of the pink sand verbena, *Abronia umbellata*, which is found on the Oregon and northern California coasts. The largest population of *A. umbellata* in Oregon is found next to the port of Port Orford. The work went well, but grocery shopping for our large crew was a nightmare! Everyone had their own idea of what they wanted to eat, so it became a huge chore to come up with meals for the week. However, as we got to know each other, decisions (such as what to have for dinner) got much easier.

A large portion of my summer was spent working on *Sidalcea nelsoniana*, Nelson's checker mallow, a plant endemic to the Willamette Valley and a few isolated spots in the Coast Range. It often grows along tree-lined fields and in drainage ditches. Most of our time was spent relocating historic populations and taking about one and a half pages of morphometric measurements on a sample of each population. The first day of work on *S. nelsoniana*, I thought we were going to have a replay of my *Haplopappus radiatus* experience, but after just one week the entire crew had the whole data sheet memorized and could work their way down it, blurting out numbers to the data collector in the order in which they appeared on the sheet. It quickly got to the point where it took us less than five minutes to take all the requested information on a given individual. I really started to enjoy searching for *S. nelsoniana* and began to watch the roadsides wherever I went, slamming on my brakes and stopping to check out every pink inflorescence I saw.

I also had the opportunity to work in the molecular systematics laboratory with Wes Messinger, a graduate student at OSU. Currently, he is working on a project involving isozyme variation among different populations of samples for electrophoresis as well as with some of the initial electrophoretic analyses. I will be continuing this research for my senior thesis at Willamette University under the joint supervision of Dr. Aaron Liston and Dr. Bob Meinke at Oregon State University.

Spending the amount of time that we did this summer on the roadsides gave us the opportunity to collect a lot of roadside mementos which helped

contribute to the names we gave our vehicles. The Blazer was called "The Soul," after the sole of a boot we found on the edge of a field while looking for *S. nelsoniana*. The Ford F150 was named "Jaws," after the rubber shark found in a ditch, and for its powerful engine. The station wagon seemed to collect more souvenirs than any other vehicle; among them were the head of a Pebbles doll, a plastic rose and a statuette of Grover. It, however, was named after the Chinese restaurant in Klamath Falls, the "King Wah." Finally, the poky S-10 was named "Mothra," after the creature in the Godzilla movies.

During the time I spent working on *S. nelsoniana*, there were a few weeks which I spent in Klamath Falls collecting seeds from *Astragalus applegatei*, one of the most endangered plants in Oregon. Applegate's milk vetch is endemic to an area around Klamath Falls, with one population in a lot next to a lumber mill in town, and another outside town at a wildlife refuge. *A. applegatei* is one of the most endangered plants in Oregon. Seed collections we made this year are going to be used as part of a re-introduction program next year.

We also spent a week working near Unity on Cusick's pincushion lupine, *Lupinus cusickii*, which is threatened by off-road-vehicle use and by cattle grazing. We slept in John Day and commuted to Unity daily to monitor the population dynamics of *L. cusickii*.

Looking back at the summer makes me think of all the good times I had, like stomping through poison oak, blackberry bushes, thistle and cheat grass (to name a few), filling out data sheets and pressing plants on the roadside while semis passed at 55 mph, and long road trips spent talking and having a good time with the crew. I would like to thank the NPSO, ODA and Bob Meinke for the opportunity to spend the summer learning about botany and conservation biology. It has been a summer of tremendous growth and inspiration for me. Also, I would like to extend a special thanks to the crew -- Jack, Matt, Kelly, Armand, Crista, Melissa and April; it wouldn't have been the same without you! Thanks also to Wes Messinger and Aaron Liston for their help in the laboratory.

Shannon Datwyler

NPSO R & E Program

In the coming months, the state board will be developing a new strategy for addressing rare and endangered plant issues. The program has lapsed, and the options for re-starting the program are wide open. Possibilities being considered include sponsorship of an annual or biennial rare plant conference and/or coordination of county or chapter level R & E efforts. The board welcomes ideas and input regarding your desires for the program. Please mail your ideas to: R & E Chair, P.O. Box 902, Eugene, OR, 97440.

New Editor of Kalmiopsis

David L. Kennedy is now the editor of Kalmiopsis, the yearly journal of the Native Plant Society of Oregon. David has been a free-lance writer for several years, and has specialized in science and the environment. He has also worked for The Nature Conservancy, done contract work and produced nature videos.

Kalmiopsis contains articles about plant species, ecosystems, botanical history, taxonomy and related subjects. The attention to detail is scholarly, but it is intended to be read by anyone interested in plants.

Are You Moving???

Please notify Jan Dobak, Membership Chair, of any change in your address. Since Bulletins are mailed under the bulk mail permit, the post office doesn't forward them. And it doesn't notify the sender that the mail was not delivered. The post office simply throws them away.

Answers to The Common Names of Oregon Plants II: Animal Parts

This puzzle appeared in the September issue. The answers are as follows: 6, 11, 27, 20, 12, 1, 22, 13, 14, 15, 17, 7, 19, 29, 16, 8, 4, 21, 28, 25, 26, 23, 9, 3, 5, 10, 18, 2, 24, 30.

Plant Puzzle

Sponsored by the Siskiyou Chapter

Do you recognize this native shrub? It does not grow east of the Cascades crest. The first person to give the correct scientific name will win a prize.

Send your guess on a postcard to:
Peter Zika, 4230 NW Clubhouse Pl., #1,
Corvallis, Oregon 97330



This is a repeat of last month's puzzle which was not solved.

NPSO Draft Forest Policy

NPSO is developing a forest policy, a statement of where we stand as an organization on the critical issues affecting Oregon's forest ecosystems. We would like the final policy statement to reflect the views of NPSO members, and are seeking input on content and wording. The current draft is presented below for your review. Comments will be incorporated into a final draft, which will be discussed at the next NPSO Board of Directors meeting. Once finalized and approved by the Board, the policy can be quoted in correspondence to legislators and resource managers, and used as guidance in reviewing government planning documents. Please do not cite or quote the following draft.

Please send comments before January 1, 1995 to: Kate Dwire, NPSO, 429 SW 10th Street, Corvallis, Oregon 97333.

Native Plant Society of Oregon Draft Policy Statement on Forest Management

The Native Plant Society of Oregon, dedicated to the conservation of Oregon's native vegetation, acknowledges the importance of steward-based management strategies for Oregon's remaining forest ecosystems. In the last few decades, the forests of the Pacific Northwest have undergone extreme ecological change as a result of logging, road-building, and the use of certain silvicultural practices. We emphasize science-based management of forest resources and cooperative approaches among agencies, local communities and interest groups.

1. NPSO advocates protection of remaining west-side old growth. Approximately 90% of our west-side old growth forests have been removed; only a small percent remains intact. We feel that protection is warranted for the remaining old growth and that this protection should be accomplished by establishing legislatively mandated Old Growth Reserves or Late-Successional Reserves. In accordance with the FEMAT report, we recommend that standards and guidelines be designed and adopted to maintain late-successional forest ecosystems and protect them from loss due to logging, human impacts such as road-building, recreational over-use, harvest of "non-timber" forest products, and extensive or large scale fire and insect and disease epidemics. These systems are invaluable "reference areas" for increasing our un-

derstanding of the ecology of old growth forests.

2. NPSO advocates protection of eastside old growth forests. We disagree with plans for accelerated logging in the already fragmented forests of central and eastern Oregon.

3. NPSO strongly advocates protection of rare botanical resources and botanical biodiversity. Botanical resources include threatened, endangered, and sensitive plant species, native plant communities and unusual habitats.

4. NPSO advocates careful management of forest resources (case by case) occurring in specially designated lands, including Research Natural Areas, Areas of Critical Environmental Concern, wilderness areas, relict areas, wild and scenic river corridors, national parks, national monuments, wildlife refuges, Wilderness Study Areas and other special natural areas. Careful management may mean no logging or selective logging with specified removal (e.g. horse-logging or use of helicopters).

5. NPSO believes that "new forestry" and adaptive forestry management techniques should be closely monitored to track the achievement of research and management objectives, and that the focus of adaptive management areas should be on restoration projects rather than production or resource exploitation. We feel that research should be conducted by scientists and resource managers. While members of local communities, special interest groups and forestry industry representatives should be informed about alternative forestry techniques, they should not design or implement them.

6. NPSO encourages efforts to manage and monitor the harvest of "other" forest products, including edible mushroom and truffle harvest, moss and lichen collection for the nursery industry, and collection of herbaceous and shrub botanical specimens for horticultural purposes. The effects of removal of these components are unknown, and need to be examined and controlled.

7. NPSO advocates the establishment of riparian reserves.

8. NPSO advocates management of Oregon's forests on a larger scale. The fragmentation of our forests through road-building and clear-cutting has produced "ecosystem islands." We encourage development of management standards and guidelines at a landscape level to provide for ecological

functions such as dispersal of organisms, carryover of species in time from one stand to the next, and maintenance of structural components such as down logs, snags, and large trees. We encourage improved communication between federal and state agencies to promote management of contiguously forested areas.

9. NPSO supports the restriction and control of log importation from foreign countries. Importation of foreign logs introduces exotic insects, diseases and pathogens which can lead to devastating impacts on native species.

10. NPSO acknowledges the threat to native plant communities from the invasion of alien, non-native plant species, and we recommend appropriate management practices that reverse this trend.

11. NPSO advocates multi-use management that provides a strong educational component regarding the ecology of our forest resources and manages and monitors recreational use, especially in Research Natural Areas, Wilderness Areas and riparian reserves.

12. NPSO supports the development of standards and guidelines for the use of prescribed fire in the management of forest ecosystems.

13. NPSO supports the discontinuation of raw log exports and all unfinished wood products. We promote the consideration of alternatives proposed in the Sustainable Forestry Initiative of 1994 for altering forest tax structures and establishing community-based restoration and development funds.

***Botrychium* and *Carex* Information Needed**

The Eastside Ecosystem Management Project will result in an environmental impact statement for the Columbia Basin evaluating potential federal land management strategies. The study area includes western Montana, nearly all of Idaho, and all of eastern Washington and Oregon. In addition, small portions of western Wyoming, northwestern Utah and northeastern Nevada are included. In an effort to prepare the EIS using the best information possible, the U.S. Forest Service and other federal agencies are expanding their data base of vegetation and wildlife information. As part of this effort, geographical (range) and ecological data on all species of *Botrychium* and *Carex* occurring in this area are now being assem-

bled. If you can assist in this project by contributing sighting data (site plant lists, herbarium label data, personal knowledge, etc.) or ecological data (associate species, habitat information, wildlife use, etc.) please call or send data to: Salix Associates, 2525 Potter, Eugene, Oregon 97405. Telephone: 503-343-2364 or 503-758-4500. Fax: 503-341-1752. Thank you!

Legislative Notes In Support of Measure 14

The Stop Toxic Open Pit Mines, or STOP'M petitions gathered over 86,000 signatures, creating Measure 14 on our November ballot. Measure 14 supports amendments to Oregon's Chemical Mining Law of 1991. The goal of Measure 14 is threefold: 1) to protect Oregon's waters and lands through environmentally safe mining practices; 2) to protect Oregon's communities from the effects of mining both during and after the mining operation; 3) to insure that mining companies, not Oregon's taxpayers, pay the full cost of mining in Oregon.

The 1991 Oregon Legislature did pass the Chemical Mining Law, that has been hailed by some as possibly the strongest in the nation. The law requires a coordinated permitting process that includes opportunities for public comment. Also included in the law are environmental standards. Yet there are vital elements missing. One major element is the requirement to backfill the monster pits this type of mining creates in a desert environment. Another missing element is the critical issue of long term monitoring of these possible environmental nightmares if they should leak after the closing of the mining operation.

The legislature failed to include these and many other important issues involved in cyanide heap leach mining, leaving many details to agency discretion. In hashing out the 1991 law, the mining companies made it perfectly clear that no bill would make it through the legislature if certain items were included. Measure 14 will correct the deficiencies of the 1991 law. The NPSO Board endorsed the STOP'M petition. Support Measure 14. Support a strong commitment to responsible mining in our state.

Esther Gruber McEvoy
Corvallis Chapter

Legislative Chair Position Open

Anyone interested in getting involved in the world of bills, laws and politics please contact Esther McEvoy at 754-0893, or write to 3290 SW Wilamette, Corvallis, OR 97333. No prior experience necessary. Will train. I have actively resigned as legislative chair and am seeking a replacement for the upcoming legislative session. You can make a difference and voice an opinion that will help support the NPSO on important issues.

Esther Gruber McEvoy

Conservation Strategy Meeting

On September 21, 1994, Portland Chapter president, Sue Allen, and I attended a Conservation Strategy Meeting (CSM) as interim representatives of NPSO. At least 18 groups were represented, including Portland Audubon Society, Sierra Club, ONRC, Oregon Environmental Council, Oregon League of Conservation Voters, Oregon Shores Conservation Coalition, Historic Preservation League of Oregon, Waterwatch, OSPIRG and others.

The purpose of the meeting was to discuss the threats and opportunities for the 1995 legislative session, and to strategize how to participate most effectively. The threats to existing state environmental laws by groups like Oregonians In Action and Oregon Lands Coalition are considerable. Goal 5 of S.B. 100 (natural & cultural resources) is particularly under attack; OIA plans a bill to require "compensation" to land owners "who suffer from excessive land use regulations, such as those that restrict uses to provide wildlife habitat, natural areas, wetlands, scenic views, and open space." Another bill would limit LCDC's authority to matters of "genuine statewide concern." It was felt that only a coordinated effort on the part of all groups that strive to protect the state's resources would counteract the highly effective strategies of these well-funded interest groups which make short term private profit their first priority. The CSM organizers are particularly interested in involving groups whose members are perceived as moderate and are not often heard from by the legislature -- like the NPSO.

I left the September meeting with the understanding that two things were being asked of NPSO:

First, **would our chapters be willing to organize themselves into phone trees (and/or fax networks!!!)** to make calls or write letters to legislators as the need arises Bills do not generally have sufficient lead time to notify the membership through the Bulletin. Many times, immediate, last minute action is needed.

Second, **would NPSO be willing to contribute towards funding a grass-roots coordinator position in Salem** who could keep all member groups apprised of needed actions.

Ideally, our representative to the CSM would be the legislative committee chair, but that position is now vacant. [See the notice above this article.] If you are interested in being our liaison to CSM, please let your chapter president, and Bruce Rittenhouse (756-0100 at work, or 888-9328 at home) know.

Mary Vogel
Vice President for Field Trips
Portland Chapter

New Guidelines For NPSO Partnerships

In the last few years there has been an increase in funding requests to NPSO to be partners in projects with federal, state and local agencies, Oregon's universities, and private organizations. These projects have been primarily with federal agencies and are called Challenge Cost Shares (CCS). CCS is a venture where the private sector and agency share in both the cost and the work for on-the-ground projects (inventories, monitoring, research, restoration), interpretive information, or anything which NPSO feels is beneficial to native plant species.

To facilitate the increasing number of requests, the NPSO board of directors has established a new set of guidelines for the submission of projects. With these guidelines, all proposals can be evaluated equally. These guidelines only apply to those submissions seeking funding from the state board. When requesting funding from chapters, the partner will need to the chapter president for chapter guidelines. Submissions to the state board that do not meet the guidelines will not be considered.

Currently, the maximum amount NPSO can award a partner is \$500. In 1994, we budgeted \$2,000 for partnerships. This may change in future years, either up or down.

Guidelines - Submission dates for cost share projects are March 1 and September 1. We encourage sending submissions prior to the March deadline as funding may be used up during this time period. At this time, all submissions are sent to the NPSO president. (See the inside of the back leaf of the Bulletin for the current president's address.) In the future, submissions may be sent to a partnership committee, which will evaluate and prioritize projects, for the state board to decide. Recipients of cost shares are encouraged to write an article for the monthly Bulletin describing the results of the project. The following is the format for submitting a cost share to the state board. Submissions should not exceed one page in length. If you have any questions, please feel free to contact me at 756-0100 (days) or 888-9328 (evenings).

Bruce Rittenhouse
NPSO President

(Submissions format)

Title:

Contact person:

Agency:

Address/phone number:

Project description:

What is being asked of NPSO?

How will project benefit native plant species?

Funding sources (in addition to NPSO):

Budget summary/Work plan:

NPSO Items For Sale

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Dr., Bend, OR 97701 (503-389-6981). Individuals may order posters at \$12 each, plus \$3 per order for shipping. Posters are mailed in tubes. Chapter treasurers may contact Stu, for wholesale prices to chapters.

NPSO Window Stickers are decals with NPSO's trillium logo in green over an opaque white background, for use inside car windows. Available from Stu Garrett. \$1 each; minimum order five.

NPSO Notecards feature seven rare plants drawn by Julie Kierstead and one by Valerie Sloane. They are printed on pastel parchment-style paper with matching envelopes. Sold through NPSO chapters, they cost \$4 per packet. Contact Lisa Croft, 699 W 2nd, Prineville, OR 97754 (503-447-5270).

NPSO T-Shirts are available in various colors and designs, and are sold through NPSO chapters.

NPSO's Original Wildflower Poster depicts 13 Oregon wildflowers in a striking artist's rendition. Soon to be a collector's item! Available from Stephanie Schulz, 652 W 10th St., #1, Eugene, OR 97402 (503-485-1868). \$5 each, plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO Membership Directory lists names, addresses and telephone numbers of members, as of April, 1993. Available from Jan Dobak, 2584 NW Xavier St., Portland, OR 97210-2412. \$2 each.

STATE OFFICERS

DIRECTORS (to 6/95) Jenny Dimling, Veva Stansell, Nancy Wogen
 DIRECTORS (to 6/96) Jerry Igo, Ethen Perkins, Peter Zika
 PRESIDENT Bruce H. Rittenhouse. 550 Fillmore, Coos Bay 97420-3167; w:756-0100; h:888-9328
 IMMEDIATE PAST PRESIDENT Lisa Croft. 699 W 2nd, Prineville 97754; 447-5270
 VICE PRESIDENT Rhoda Love. 393 Ful Vue Dr, Eugene 97405-2706; 345-6241
 SECRETARY Julie Thiel. 6144 Stonehill Ave. S, Salem 97306; 362-2057
 TREASURER Kari Yanskey. PO Box 64, Ukiah 97880; 427-3063

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker. Rt 1, Box 263, Adams 97810-9704; 566-3381
 CORVALLIS Keli C. Kuykendall. 4550 SW Nash Ave., Corvallis 97333; 758-8409
 EMERALD (Eugene) Bruce Newhouse. PO Box 902, Eugene 97440; 343-2364
 HIGH DESERT (Bend) Cindi O'Neil. 22100 Sweetgrass Dr, Bend 97701; 389-3085
 MID-COLUMBIA Michael Igo. P.O. Box 603, Mosier 97040; 478-3314
 NORTH COAST Jaylen Jones. 5927 NW 7th St., Tillamook 97141; 842-7710
 PORTLAND Sue Allen. P.O. Box 8, Brightwood 97011; 622-3611
 SISKIYOU Joan Seevers. 725 Leonard St., Ashland 97520; 482-5492
 South Coast Paul Bakke. P.O. Box 476, Powers 97466; 439-7234
 UMPQUA VALLEY (Roseburg) Sandra Stiltner. 1963 Lookingglass Rd., Roseburg 97470; 672-5903
 WILLAMETTE VALLEY (Salem) Mark Quistad. 225 Senate St. NW, Salem 97304; 399-9680
 WM. CUSICK (La Grande) Bob Ottersberg. PO Box 885, La Grande 97850; 963-4907

STATE COMMITTEE CHAIRS

RARE AND ENDANGERED Bruce Newhouse. P.O. Box 902, Eugene 97440; 343-2364
 CONSERVATION, EAST SIDE Stu Garrett. 21663 Paloma Dr, Bend 97701; 389-6981
 CONSERVATION, WEST SIDE Kate Dwire. 429 SW 10th St., Corvallis 97333; w: 754-4493; h:757-7115
 LEGISLATIVE Esther McEvoy. 3290 Willamette, Corvallis 97333; 754-0893
 MEMBERSHIP Jan Dobak. 2584 NW Savier St, Portland 97210-2412; 248-9242
 Budgets and Grants Dan Luoma. 4560 University Pl., #2, Corvallis 97330; 752-8860

PUBLICATIONS

BULLETIN EDITOR John Robotham. 117 NW Trinity Pl, Apt. 28, Portland 97209; 226-6371
 KALMIOPSIS EDITOR David L. Kennedy. 8394 Wagner Creek Rd., Talent 97540; 535-6383

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals, and change of address (include old address) should be sent to the Membership Chair

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____

State _____ ZIP+4 _____ - _____

Phone _____

Chapter (if known) _____

Is this a change of address?

If so, please write your **old address** here:

Please make checks for dues and contributions payable to:
 NATIVE PLANT SOCIETY OF OREGON

DUES include monthly *Bulletin* and annual *Kalmiopsis*.

Full membership is for calendar year, January to December.

() New () Renewal

() Student. \$8
 () Regular. \$12
 () Family. \$18
 () Sustaining. \$30
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 () Life Membership. \$500

() New "Quarter" Membership. \$3
Only for new members

enrolled during September through December

() Subscription Only (*Bulletin* and *Kalmiopsis*). \$12
*Only for those wishing to subscribe
 but not have "membership" status*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund. \$_____
 Leighton Ho Memorial Field Botany Award Fund. \$_____
 Rare and Endangered Plant Fund. \$_____

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair, 2584 NW Savier St., Portland OR 97210-2412.

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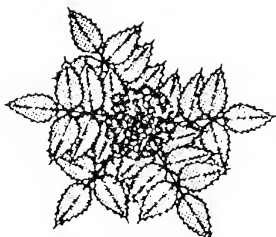
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NATIVE PLANT SOCIETY OF OREGON

General Business Address: P. O. Box 902, Eugene, OR 97440
or correspond directly with the Officers and Committee Chairs listed on the inside back page.
Membership Inquiries Only: Jan Dobak, 2584 NW Savier St., Portland, OR 97210-2412

Send change of address notices
and membership requests to:
Native Plant Society of Oregon
Jan Dobak, Membership Chair
2584 NW Savier St.
Portland, OR 97210-2412

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Dedicated to the enjoyment, conservation, and study
of Oregon's native vegetation

VOLUME 27

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It's Renewal Time

The NPSO membership year is January to December. Now is the time to renew. First check your address label on the Bulletin. You might already be paid up for 1995. If there is a 94 on the top line, you need to renew now.

A remittance envelope is in this issue of the Bulletin. Or use the membership form on the inside of the back leaf.

NPSO brings you field trips, programs, classes, the monthly Bulletin and the annual Kalmiopsis.

This is also a good time to consider a tax-deductible contribution to our special funds. The Leighton Ho Memorial Fund is used for summer research projects in western Oregon, and is a matching grant in cooperation with The Nature Conservancy. The Rare and Endangered Plant Fund supports work with our most threatened plants. The Jean Davis Fund awards scholarships to botany students in Oregon. Contributions can also be made to the NPSO General Fund.

Your membership and donations make it possible to carry out more of the many projects that are needed to pursue the goals of NPSO.

Membership Directory to be Published

The 1995 edition of the NPSO Membership Directory will be published in April. Anyone wanting a copy should add one dollar to their renewal payment.

State News

Jan. 28, Sat.

State Board Meeting: 10 A.M. in Eugene, at Lane Community College. Directions: From I-5, just south of Eugene, exit to L.C.C. and 30th Ave. If northbound, turn left on 30th, southbound turn right. Go 1/4 mi. to Eldon Shaffer Blvd., turn left, go up hill past parking lot and building, turn right into lot above building. Go downstairs to south side of building, and enter room 109.

Spring 1995

Annual Meeting: In Portland. Details in future Bulletins.

NPSO Bulletin

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December 1994

Chapter News

Blue Mountain

Dec. 5, Mon. **Meeting:** 7 P.M. Small Business Development Center, SE 1st & Dorian, Pendleton. Janet Ebaugh will talk on the Umatilla tribes project on Wildhorse Creek.

Corvallis

Dec. 12, Mon. **Meeting:** 7:30 P.M. Dessert potluck and slide show. Take 12 of your favorite slides and/or dessert to share to 3420 SW Willamette Ave., Corvallis. Call Keli Kuykendall, 758-8409, for more information.

Emerald

Dec. 3, Sat. **Ivy Pull.** 10 A.M. We need 20 volunteer hours, to pay for our meeting space at Morse Ranch, and restore native vegetation. Wear long gloves. Take Tecnu and cutters. Directions from downtown Eugene: Take Willamette St. south to Crest Dr. (right through "Y" for Donald, between 32nd and 33rd Aves. E.) Go right (W) on Crest 4 blocks, turn right into Morse Ranch parking lot.

Dec. 26, Mon. **Christmas Meeting:** 7 P.M. Take ten slides of 1994 field work, exploration, or whatever. Directions: See above. For information, call 485-0891.

High Desert

Officers: New officers are: Stu Garrett, president; Cindi O'Neil, secretary/treasurer.

Meeting: No meeting in December. Call Cindi O'Neil, 389-3085, for information.

Jan. 24, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Reid Schuller will present a program on the national parks of Australia.

Feb. 28, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. The fire history of the Metolius and Black Butte area will be presented by Dr. Robert Sherman.

March 28, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Slide show night. Bring your favorites to show fellow members.

April 25, Tues. **Meeting:** 7 P.M. Central Oregon Environmental Center, 16 NW Kansas, Bend. Linda Rexroat, Range Ecologist, The Nature Conservancy, will discuss restoration ecology at Sycan Marsh.

Mid-Columbia

Dec. 7, Wed. **Meeting:** 7:30 P.M. at Mosier School. Jerry Gabay will give a slide show, "From Luderitz to Mfeting -- the desertification of southern Africa," based on his recent travels in Africa.

North Coast

Dec. 11, Sun. **Christmas Potluck:** 1 P.M., at Christine Stanley's, 179 E. Coolidge, Cannon Beach.

Please take a dish to share for afternoon brunch. Weather permitting, a short excursion will follow. Call Christine Stanley, 436-0161, for directions.

New Officers: Christine Stanley, president; Jim Winslow, vice president, secretary and field trip chair; Al Krampert, treasurer.

Portland

Dec. 13, Tues. **Meeting:** 7 P.M. First Methodist Church, 1838 SW Jefferson St., Portland. Mr. Jonathan Stoll, The Nature Conservancy, will tell us about "Fire ecology and restoration management of the Lawrence Grassland Preserve." (The meeting room will open at 6:30 P.M. for socializing.

Siskiyou

Dec. 15, Thurs. **Meeting:** 7:30 P.M. Room 171, Science Building, SOSC, Ashland. "Wildflowers of Alaska - from muskegs to alpine." Joan Seevers, Rick Prusz and Frank Lang will show slides from those areas.

South Coast

Call Paul Bakke, 439-7234, for information on activities.

Umpqua Valley

Dec. 8, Thurs. **Christmas Party:** 6 P.M. at Richard Sommer's, 240 Vinyard Lane, Roseburg. Take finger foods and your own table service. Call Richard, 673-3709, for information.

Willamette Valley

Meeting: No meeting in December. Will resume in January.

Wm. Cusick

Meeting: Call Bob Ottersberg, 963-6043, for information on activities.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Each group using wilderness areas should be no larger than 12.

President's Column

I just got back from the Rare Plant Conference in Bend (in spite of the snow) and would consider the meeting a success. I want to thank Stu Garrett, Cindi O'Neil and Lisa Croft for their efforts in organizing the meeting. The facilities were outstanding!! I would like to see NPSO continue to sponsor future meetings. At the meeting, representatives of the U.S. Fish and Wildlife Service, Forest Service and Bureau of Land Management updated participants on listing packages and sensitive programs. Most of the participants were botanists from the BLM and FS. I want to encourage NPSO members to attend future meetings.

Writing this just after the election, I was disappointed that Ballot Measure 14 (on mining restrictions) failed. Only time will tell what will happen in southeastern Oregon.

The Native Plant Symposium is going on as planned. (See the article in this issue of the Bulletin.) The dates are November 15 - 17, 1995. And the place is the LaSells Stewart Center in Corvallis. If you are interested in speaking or helping, please give me a call.

Finally, I want to wish everyone a safe and happy holiday season.

Bruce Rittenhouse
NPSO President

NPSO Officers Needed

It is that time again when volunteers are needed to be NPSO officers. We need volunteers for president, vice president, secretary, treasurer, and three at-large board members. If you, or anyone you know, is interested, please call Bruce Rittenhouse, at 888-9328.

NPSO to Sponsor Symposium on Native Plants

Mark your calendars for November 15th to 17th, 1995. This is when the Native Plant Society of Oregon will sponsor a symposium, "Conservation and Management of Oregon's Native Flora." It will take place at the LaSells Stewart Center on the Oregon State University campus in Corvallis.

The symposium will consist of four themes, the titles of which will be forthcoming. Two of the themes will include research on Oregon's rare species, and the restoration of native species and plant communities. The other two are still being developed. Each theme will have a keynote speaker, followed by other speakers elaborating it. Concurrent sessions are a possibility, depending on the number of speakers. A poster session will also be included.

This symposium is a great opportunity for graduate students, university faculty, agency personnel and private consultants to make presentations on Oregon's native flora.

There will be a registration fee for those who would like to attend. It is tentatively set at \$40 for NPSO members and \$50 for non-members. (If you are not a member and would like to attend, this is the time to join.) The registration fee will include an evening dinner on the 15th.

There will be more information in future issues of this Bulletin. If you are interested in presenting a paper, please feel free to call me at 503-756-0100, extension 225, or 503-888-9328, at home.

Bruce Rittenhouse

ORV's and Rare Plants

I plan on doing an article for Kalmiopsis on the impacts of off-road vehicles on rare plants in Oregon. If you have information on this issue on either public or private lands in Oregon, please send me the details. I feel this is an important issue and no one has the "big picture" in our state.

Stu Garrett
1501 NE Medical Center Drive
Bend, Oregon 97701

Transforming Forest Eyesores

Imagine that you are given a free hand to transform the power line and ski-lift corridors, located in our national forests, with native vegetation! What would you like to see there? What is your vision? Let your imagination flow.

Three lucky Portland Chapter NPSO members had the opportunity to do just that, on a field trip with Zigzag Ranger District, Special Forest Products Officer, John Davis -- and you do too. John is eager to hear your ideas on what native plants would create more beauty and provide the local people with incomes.

John's own ideas include planting these areas with *Vaccinium membranaceum* -- "big" huckleberries -- the ones that turn red in the fall -- and *Xerophyllum tenax* (bear grass) and *Prunus emarginata* (bitter cherry). He would also try to encourage some mushroom species, and have trees hiding the towers. Essentially, he would plant the areas in species native to the area that have commercial value, and issue permits for harvest that would help pay for the transformation. The permittees might also accomplish some of the maintenance in the areas as they pruned their boughs or harvested their bear grass or bitter cherry for basketry.

I suggested arnica, valerian, anemone, lomatium and Oregon grape for both their beauty and their income-producing potential as medicinal herbs. With the National College of Naturopathic Medicine, an herbalist guild, a plethora of herb courses, several herbal medicine companies and the growing popularity of herbal medicines in the area, these can become -- if they are not already -- "Special Forest Products" whose harvest the USFS might need to oversee with permits. USFS might also inoculate stumps and downed wood with *Ganoderma* (artist's conk) species to take advantage of its growing popularity as an "herb of spiritual potency and medical wonder."

John treated us to a tour of six different sites that are already being managed for special forest products -- products such as tepee poles, posts, rails, boughs, pipsissewa, bear grass, moss, lichens, natural bonsai, Matsutake and other mushroom species. These uses may surpass timber as we move towards the 21st century. He would be willing to do the tour again for a larger audience, so I will reschedule a tour in the spring with pre-registration to assure a reasonable group size. Meanwhile,

please get in touch with John directly, if you have any ideas about re-vegetating power lines or ski areas. He can be reached at 622-3191 or 666-07 (Portland), extension 653.

Mary Vogel
Vice President for Field Trips
Portland Chapter

The Plant Puzzle

Sponsored by the Siskiyou Chapter

The immense genus *Carex* has some odd members in Oregon. For example, the sandpaper-like texture of the achene covers of *Carex livida* are distinctive at 10-15 X magnification. To win this month's prize, be the first to name four Oregon sedges in the genus *Carex* with such peculiar prominent punctate perigynia.

Send your guesses on a postcard to:

Peter Zika
4230 NW Clubhouse Pl., #1
Corvallis, OR 97330

Mary Maret of Newport was the first to solve the November puzzle, golden fleece, *Ericameria arborescens* (*Haplopappus arborescens*).

Summer Intern Reports

Following is the second in a series of five articles in which NPSO conservation biology interns discuss their activities during the 1994 field season. Interns were selected from a pool of about 30 applicants, and worked with scientists from the Oregon Department of Agriculture/OSU Plant Conservation Biology Program in carrying out research related to threatened and endangered species in the northwest. Project locations ranged from Hell's Canyon to vacant lots in Klamath Falls, and for one participant included a molecular systematics laboratory at OSU. Interns were jointly funded by NPSO, state and federal dollars, and plan to use their experiences in furthering their careers in botany. Thanks again to NPSO for contributing to botanical education.

Bob Meinke, Program Leader

Blazing Composites

"I can't believe it; that spider looks like it eats botanists for breakfast. Yeow! Here it comes." The screams of my field partner Armand brought the rest of the crew scrambling over to inspect the hairy arachnid crawling amidst a dense patch of Snake River goldenweed. As the spider lumbered clumsily towards us, I thought I could detect a glint of malice in its eyes. "Take a picture. Take a picture! April, put your hand next to it for scale!" After a bad experience with a yellowjacket earlier in the summer, my hand was not going anywhere near that venomous beast. I spent the summer of 1994 working with a crew of four other interns who were sponsored by the Native Plant Society of Oregon and supervised by the Oregon Department of Agriculture's (ODA) Plant Conservation Biology Program; we helped with rare plant inventory and monitoring projects all over the state. We met the spider while working on *Haplopappus radiatus*, the Snake River goldenweed.

As August was winding down, we found ourselves headed east, destination Baker City. With the exception of Monday and Friday, designated driving days, the week was spent monitoring *Haplopappus radiatus*. Evaluation of this plant, which is a state-listed endangered species, has been going on since 1991 as a cooperative project between the Vale BLM and the ODA. One goal of this project is to experimentally study the effect of cattle grazing on the population dynamics of *Haplopappus*. Several years ago, the Vale BLM, using a prison work crew, built cattle exclosures at several of the populations. Every year since then the ODA has monitored the population dynamics of Snake River goldenweed, both inside and outside the exclosures.

Beautiful weather was there to greet us every morning at 5 A.M., the start of each day. After a cup of java, we were ready to roll. Each of the three sites was reached after a short drive followed by a brisk hike. The Baker County area is the only place in Oregon where *Haplopappus radiatus* is found; it also has limited occurrences across the Snake River in Idaho, but nowhere else. Bunchgrass meadows, open hillsides, and plains provide the environment Snake River goldenweed requires. Due to the potential threat that weeds promoted by cattle grazing pose, plants are in constant competition for resources. Although biotic competition maintains balance in the plant community, too often the competitors aren't native, but introduced. Species like cheatgrass (*Bromus*

tectorum), whitetop (*Cardaria draba*) and goats-beard (*Tragopogon dubius*) are common. The introduced species may be too invasive, pushing the native plants out.

After referring to old data sheets, it was obvious that *H. radiatus* had seen better days. Seedling survival rates were very low, and many of the adults had already dried up. Plant density seemed greater inside the exclosures, but even there, signs of insect and mammal predation were present. The exclosures served as barriers to cattle, but not to animals such as deer and rabbits. We found that many of this year's flower heads were aborted. On close inspection of randomly selected heads, the problem of insect predation was brought into perspective. Only a small percentage of the seeds were viable, with midge larvae and weevils present in every stage of their life cycles. Moth larvae were also found, particularly in the receptacle area of the head. Different insects were dependent on specific areas of the flower, which seemed to be a kind of ecological niche partitioning.

The measurements taken during data collection included the number of leaves, length of the longest leaf, and the number of flower heads that were abort versus reproductive. New seedlings were mapped and recorded, and the amount of herbivory and what caused it (bovine or grasshopper) was estimated. Jean Findley and Clare Button, botanists with the Vale BLM, arrived to provide encouragement, and to help with data collection in the heat of the day.

Temperatures that week soared into the 90's and 100's. Of course, everyone was on the lookout for black widow spiders, whose webs were everywhere. A few were spotted, but nothing compared to the enormous spider that no one could identify. Luckily it held still long enough for a photograph. Evenings were spent enjoying magnificent lightning and thunder displays, making the heat of the day seem worth it. You can be sure the air-conditioned rooms didn't go unappreciated.

Aside from the botanical experience and knowledge I gained, this summer was one of personal growth for me, thanks to Jack Greenlee, Bob Meinke, Tom Kay, the Native Plant Society, the ODA and everyone on the field crew. The many personalities represented in the 1994 field crew made for a humorous and most enjoyable summer. Hopefully, we made the future for a few dwindling plant species a bit brighter.

April Sunshine Cameron

Call For Articles

"Hortus Northwest," a Pacific Northwest native plant directory and journal, is asking writers to submit original manuscripts (or queries) to the editor for consideration for publication. The emphasis is on native plants of the Pacific Northwest for restoration, gardening and wetland projects. Articles require a practical focus, must be botanically precise, and can be technical, particularly when lending support or background to topics. Thoroughness and logical organization are crucial. All plants discussed must be referenced with **both** the botanical and common names. **Indicate your source for all plant names** (Jepson, Peck, Hitchcock, etc.).

Suggested Topics:

Weed management; seed and plant predation issues; soil-plant relationships; aquatic species; establishing plants in problem environments; designing with natives; botanical reviews of communities, genera, species; canopy density of riparian species; plants for constructed wetlands; non-flowering native plants, et cetera.

Previously Published Articles:

Profiles of Pacific Northwest Fescues
Northwest Natives as Landscape Groundcovers
Basic Principles for Establishing Native Grasses
Vegetative Growth Habits of Sedges
Bulrushes for Wetland Restoration
Native Alpine Plants for Rock Gardens
Use of *Eriogonum* for Reclamation

Submissions:

We accept five and a quarter or three and a half inch diskettes in a PC format. Be sure to enclose a hard copy. Use no tabs. Allow one character space between sentences, double space between paragraphs, and use hard returns only at end of paragraphs.

Query Letters:

Send a query letter briefly outlining the proposed idea. Enclose clips of your published work. We do not accept queries or manuscripts sent via FAX.

Send to:

Editor, Hortus Northwest, PO Box 955, Canby, Oregon 97013.

NPSO Bulletin

1994 Oregon Rare Plant Conference in Bend

On November 4th and 5th over 70 professional and amateur botanists from across the northwest met at Central Oregon Community College to discuss Oregon's rare plant species. This meeting, held every other year, is the one time experts from NPSO, BLM, USFS, Oregon Department of Agriculture, U.S. Fish and Wildlife Service and the Oregon Natural Heritage Program all get together to decide what listing status Oregon plant species need to assure their survival.

In the two days of meetings each of the above-mentioned agencies updated participants on their future conservation plans. The ODA is planning to list a number of rare plants under this state's endangered species law. The USFWS is making plans to deal with the Oregon species covered by the Fund for Animals lawsuit that was successfully settled two years ago. The USFS is planning changes to its sensitive species list that could remove several important species from Oregon's USFS sensitive plant list. The BLM is pursuing Conservation Agreements for several species, and the ONHP is digitizing maps of rare species occurrences statewide. These agencies will provide details of their activities in future issues of the Bulletin.

Under the expert guidance of Lisa Croft, Cindi 'Neil and Jimmy Kagan, we were able to work through a list of over 300 species and discuss changes needed in their status on the rare plant list for Oregon. Each agency will now use the results of this conference in their decisions regarding species for which they have management responsibilities. The High Desert Chapter of NPSO sponsored and organized the conference and made sure there was time for informal discussions, in addition to the two days of hard work. Sales of the Siskiyou Rare Plant Poster (a spectacular one) and conference coffee cups (still available from Lisa Croft for \$5) generated funds for the conference and for publication of the rare plant booklet in 1995 by the Heritage Program. NPSO was proud to sponsor this conference and looks forward to doing it in the future.

Stu Garrett
High Desert Chapter

Endangered Species Act Update

Congress took no action on reauthorizing the Endangered Species Act, before recessing in October. This means the new Congress, convening in January, will have to begin again -- introducing new bills, probably holding new hearings, and voting -- first in committees, then in the full House and Senate.

Timing is uncertain. A Republican-led Senate means that John Chafee, Rhode Island -- a strong supporter of the ESA -- would chair the Committee on Environment and Public Works. In general, however, it can be expected that the new Congress will be even more difficult to work with in efforts to protect and enhance the ESA.

The Endangered Species Coalition (an organization of more than 145 national, state and local organizations committed to getting passed a strengthened ESA) has just opened a regional office in Seattle. Becky Dinwoodie, Northwest Regional Coordinator, can be reached at 1516 Melrose Avenue, Suite 202, Seattle, WA 98122, (206) 623-2734, FAX 206-623-2624.

The Coalition will sponsor a regional conference at the Mountaineers Club in Seattle, January 21-22, 1995, its theme, "Reauthorizing the ESA -- Mobilizing for Action." Conference organizer, Melanie Reeves, invites other environmental organizations to cosponsor the event. For a \$50 donation to the Coalition, the organization's name will appear as cosponsor, it will receive one complimentary registration (fee \$30), and will provided a display table. Checks are payable to: NAS Endangered Species Coalition, at the above address, and sent by Nov. 18, 1994, for brochure inclusion.

Faith Campbell leaves the Natural Resources Defense Council at the end of the year to work for the Exotic Pest Plant councils. She will be sorely missed. To continue receiving timely information about ESA, write to be put on the mailing lists of, Roger Featherstone, Endangered Species Coalition, 666 Pennsylvania Ave. SE, Wash., D.C. 20003, and Pam Eaton - "Green Fire," The Wilderness Society, 907 17th St. NW, Wash., D.C. 20006.

Mariana D. Bornholdt
Willamette Valley Chapter

Opal Creek Needs Your Help

The Opal Creek Forest Preserve Act of 1994 (HR 3905) permanently protects 22,000 acres of Opal Creek Ancient Forest. The bill passed unanimously in the House of Representatives last fall, and was strongly endorsed by the administration. But, Senator Hatfield "killed" it in the Senate during the last days of the 103rd Congress. Action may be taken during the "lame duck session" (December 1-5, 1994) if we let Senator Hatfield know how important its passage is to us. PLEASE write, call or FAX Senator Hatfield TODAY, urging his support of HR 3905. Messages must reach him before December 5.

Honorable Mark Hatfield
U.S. Senate
Washington, D.C. 20510
202-224-3753; 503-326-3386; 503-588-9510
FAX 202-224-0276

Kate Dwire
Westside Conservation Chair

Guidelines for Contributors to the Bulletin

NPSO Bulletin published monthly as a service to members and the public. All kinds of contributions welcome. **Copy due by the 10th of the month.**

CREDITS: Identify author and affiliation. If not original, cite source and date.

ILLUSTRATIONS: Line drawings, prints and high contrast black-and-white prints are useable. Some McIntosh graphics can be used. Contact editor for our current needs, or send illustrations with article.

BOTANICAL NOMENCLATURE: Follow "Flora of the Pacific Northwest" by Hitchcock, "The Jepson Manual" where appropriate.

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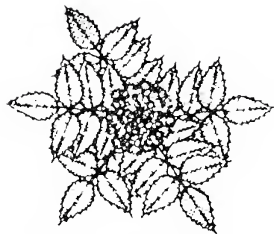
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